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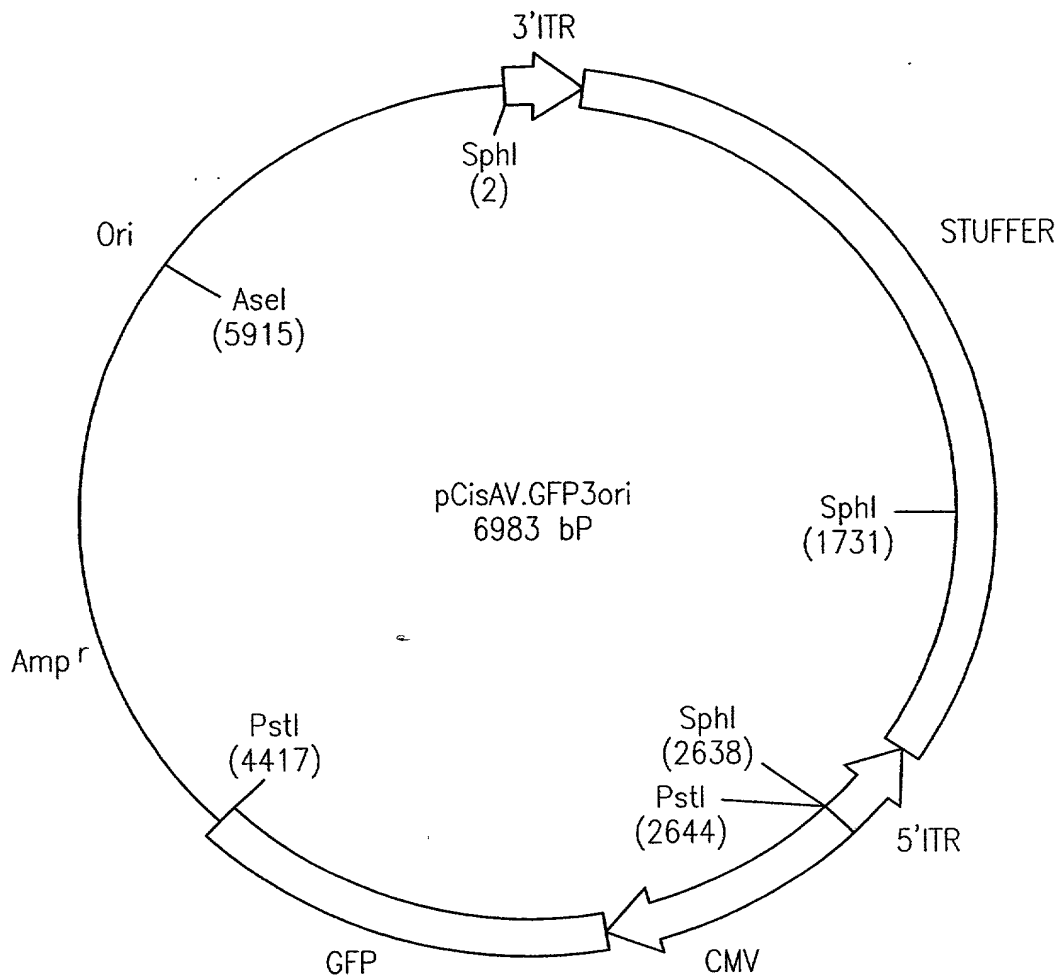


FIG. 1A

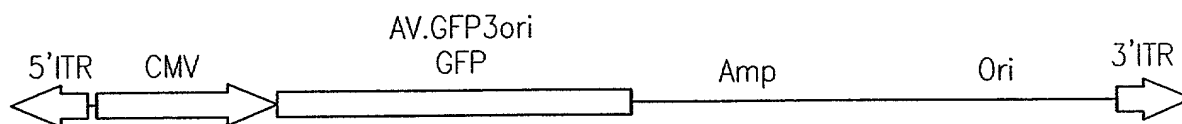


FIG. 1B

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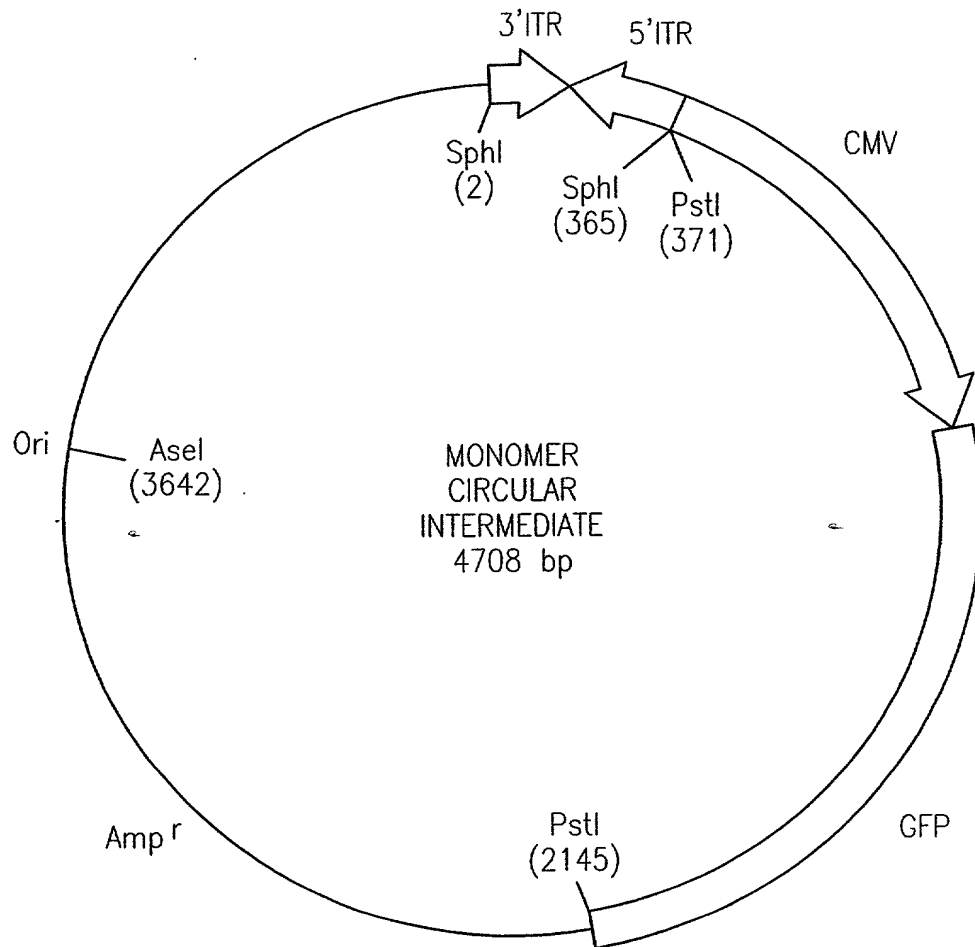


FIG. 1C

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INFECT HELA CELLS AND MUSCLE WITH AV.GFP3ori

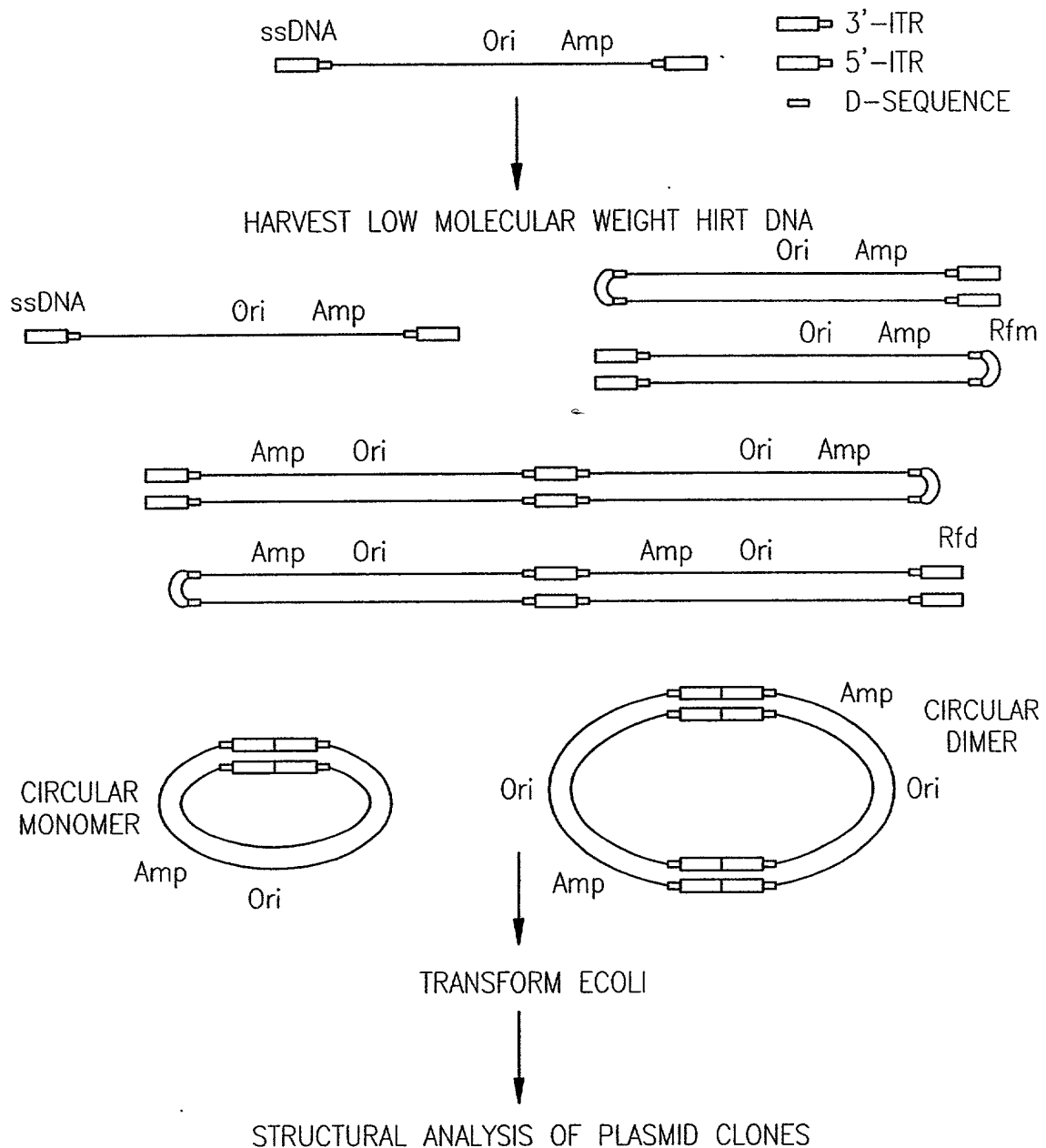


FIG. 1D

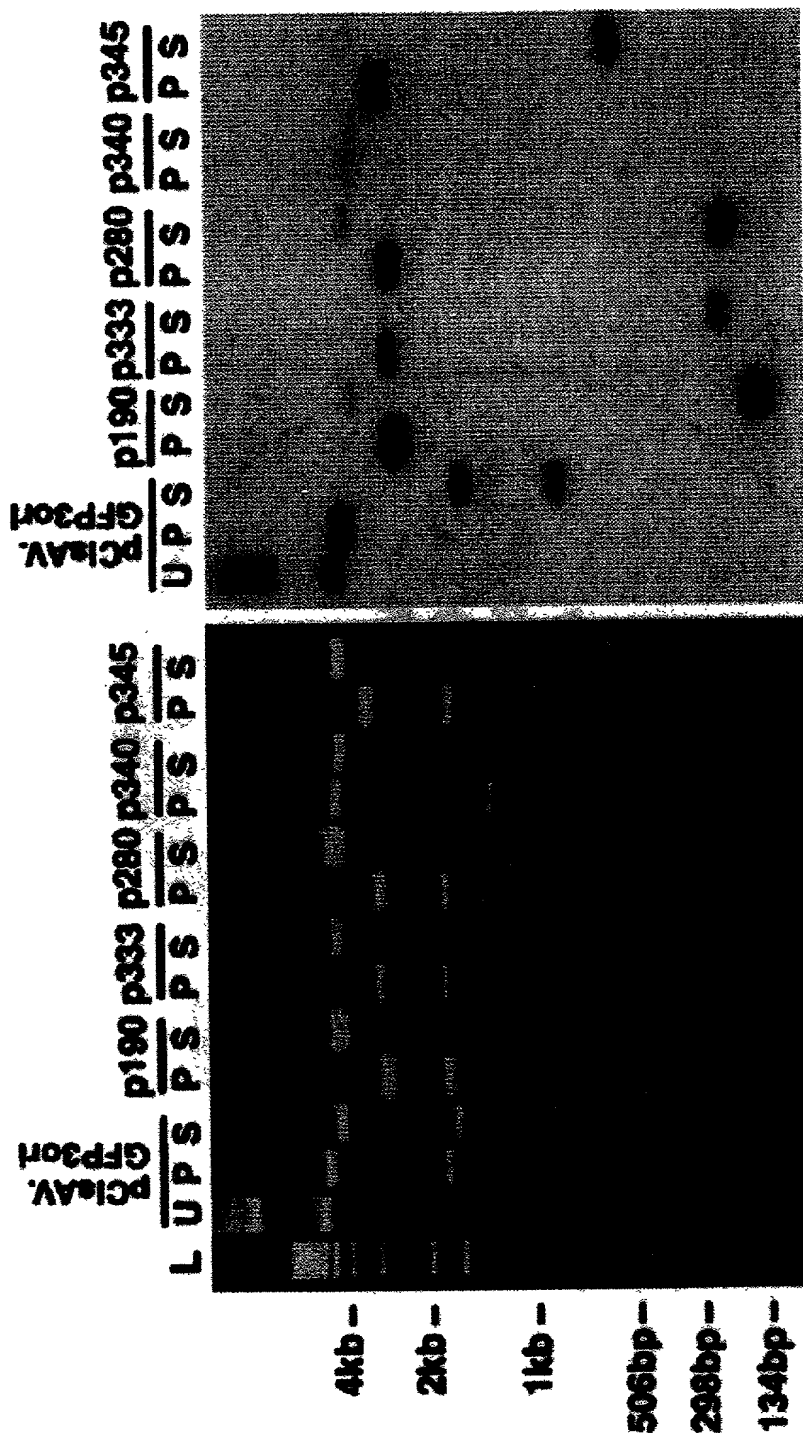


FIG. 2A

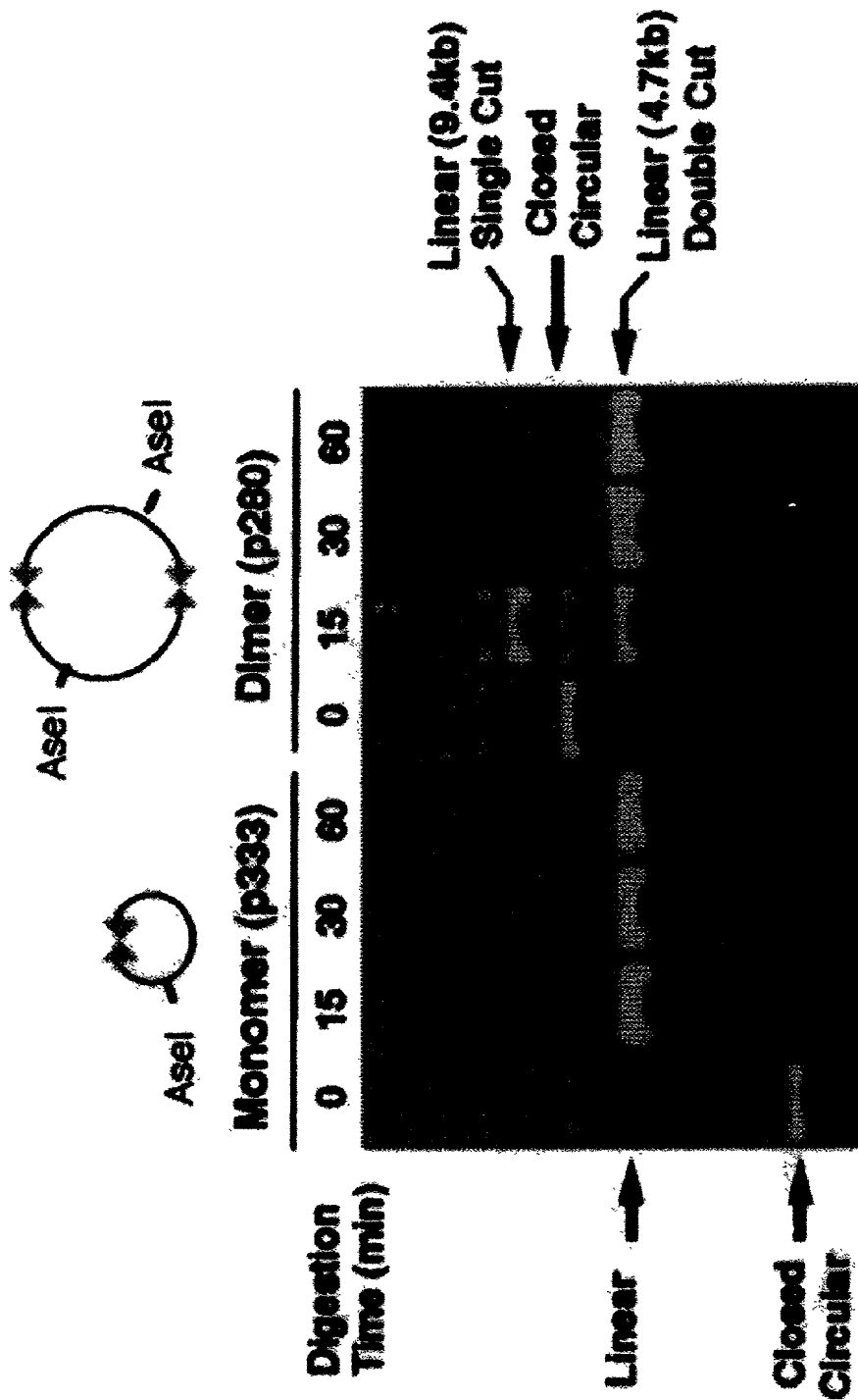


FIG. 2B

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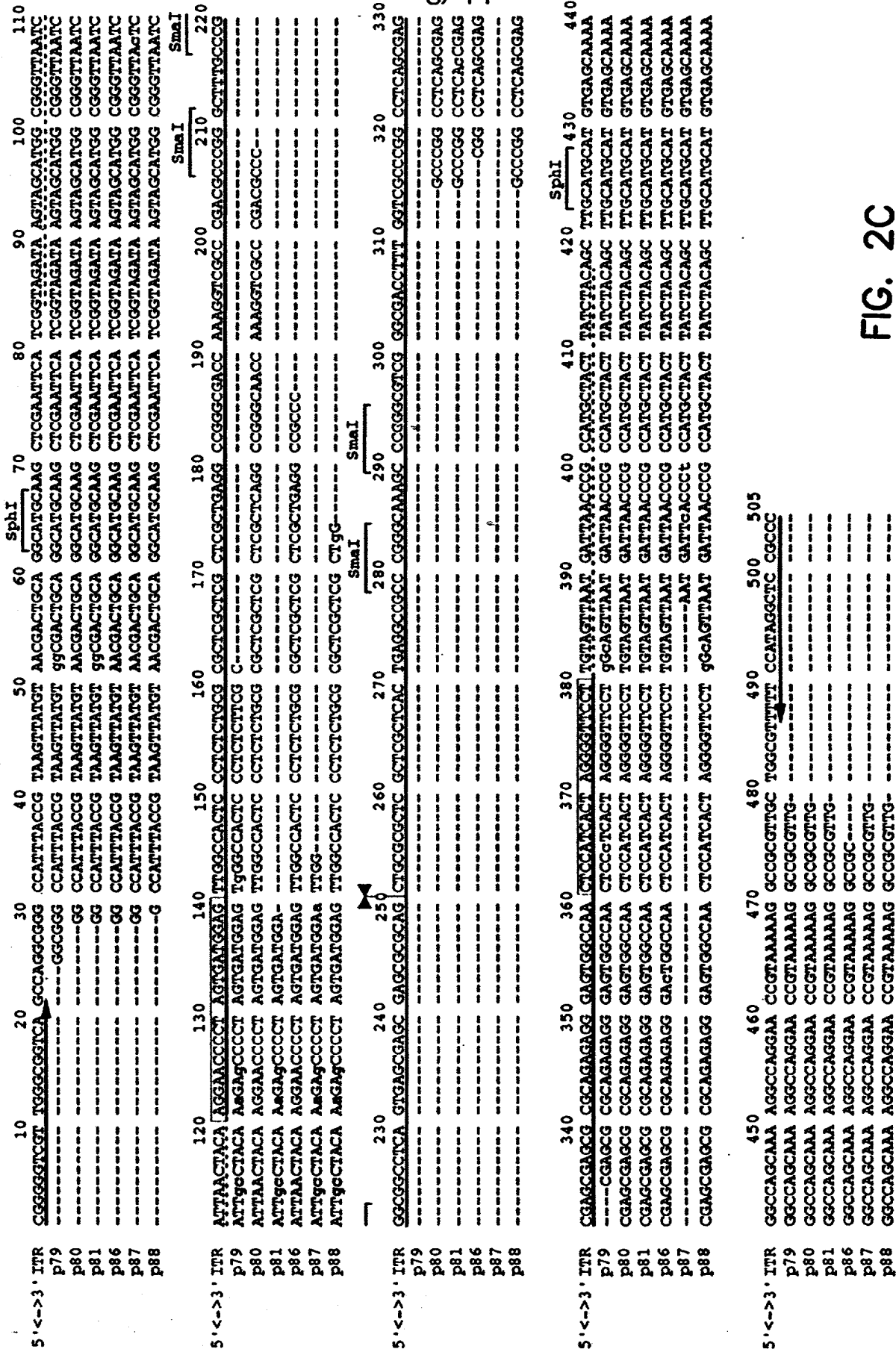


FIG. 2C

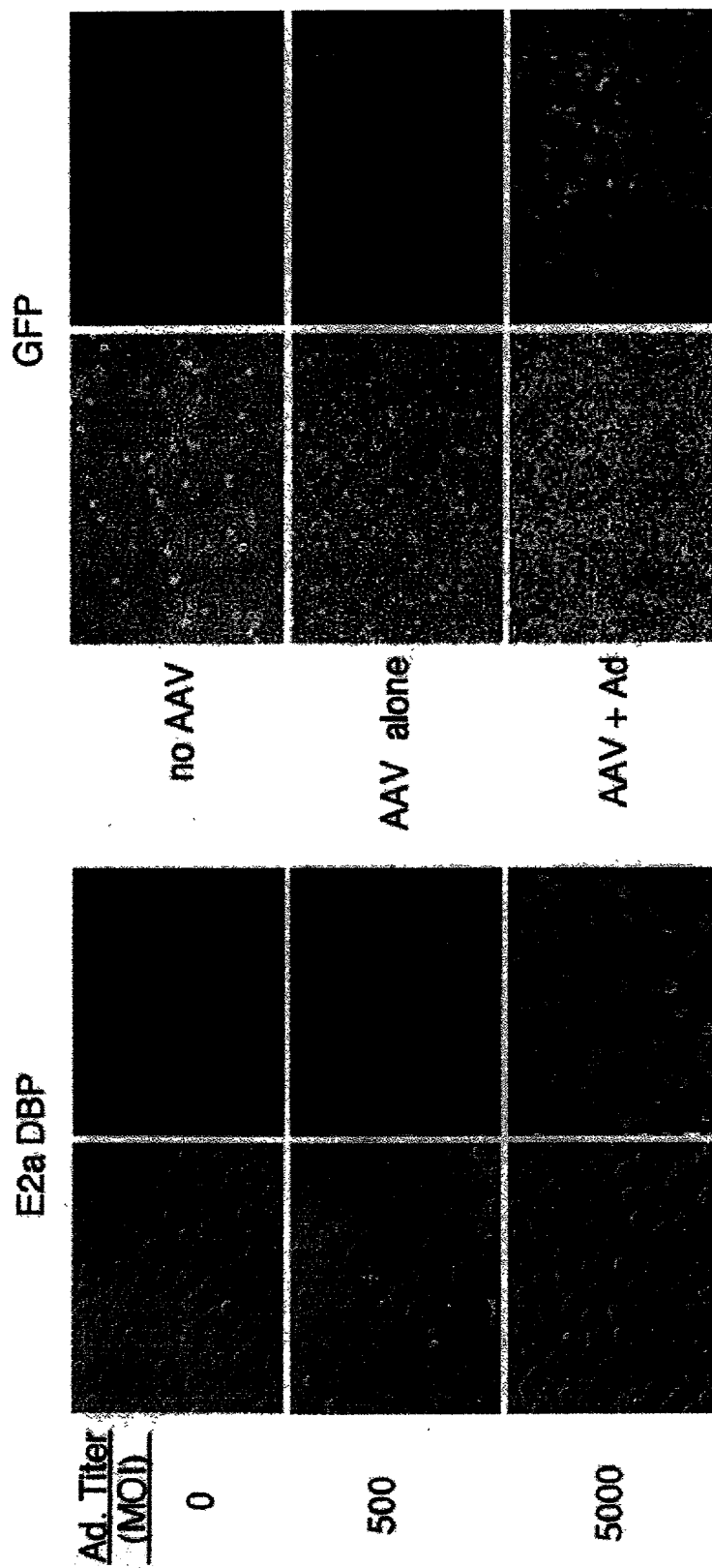


FIG. 3B

FIG. 3A

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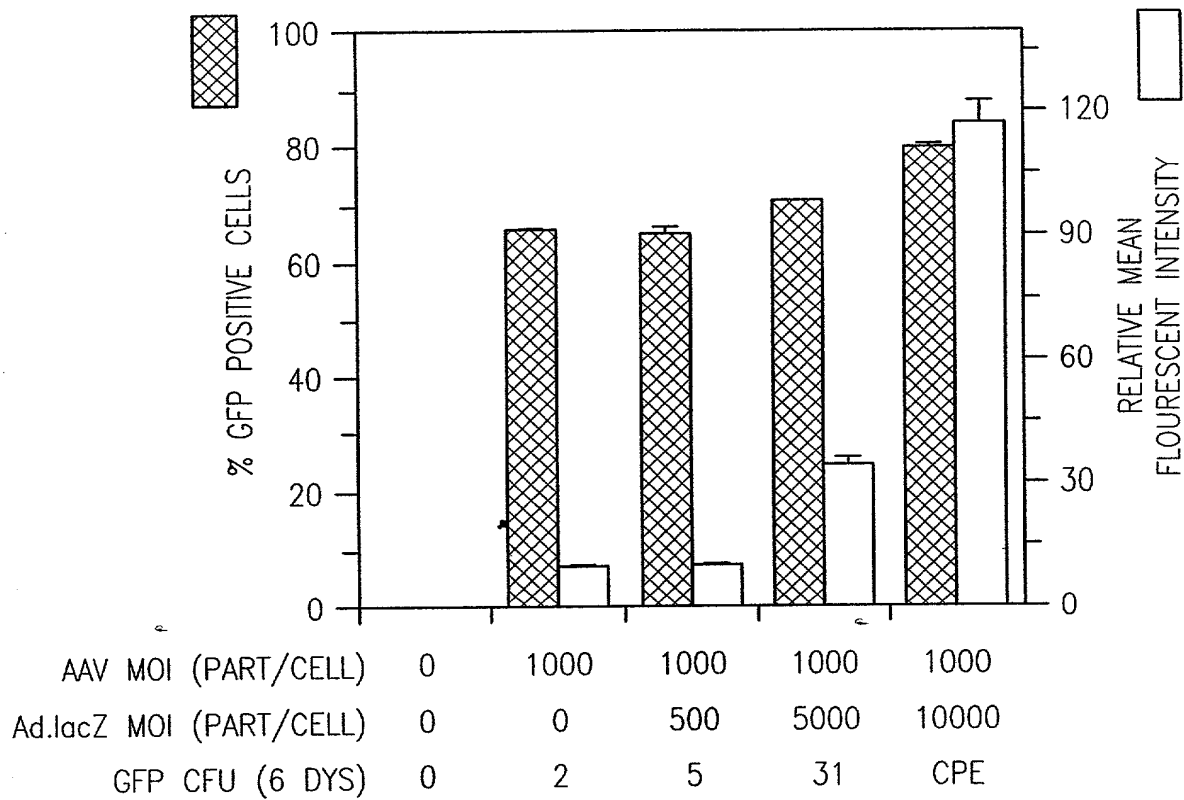


FIG. 3C

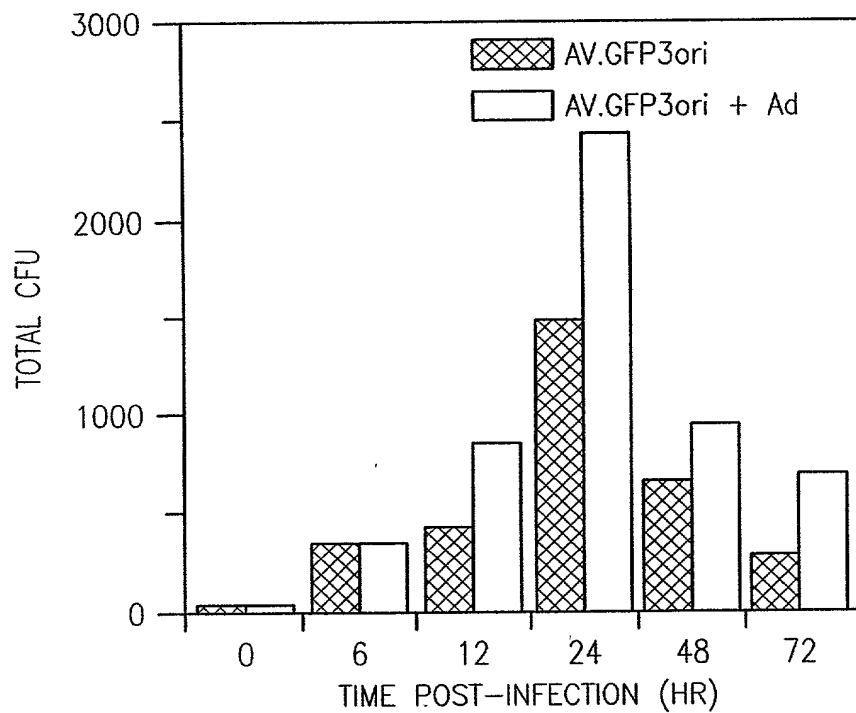


FIG. 3D

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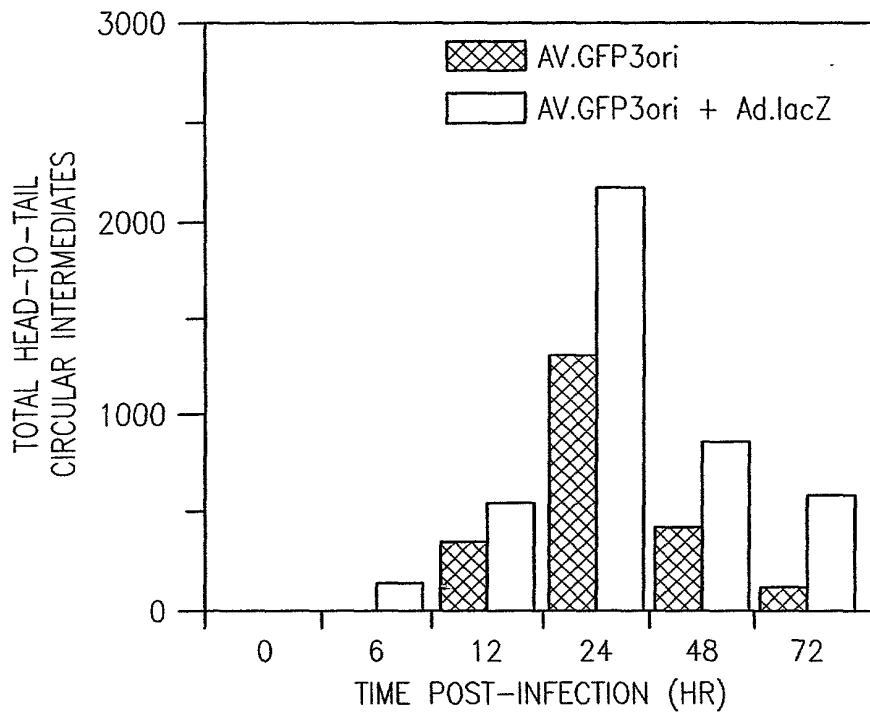


FIG. 3E

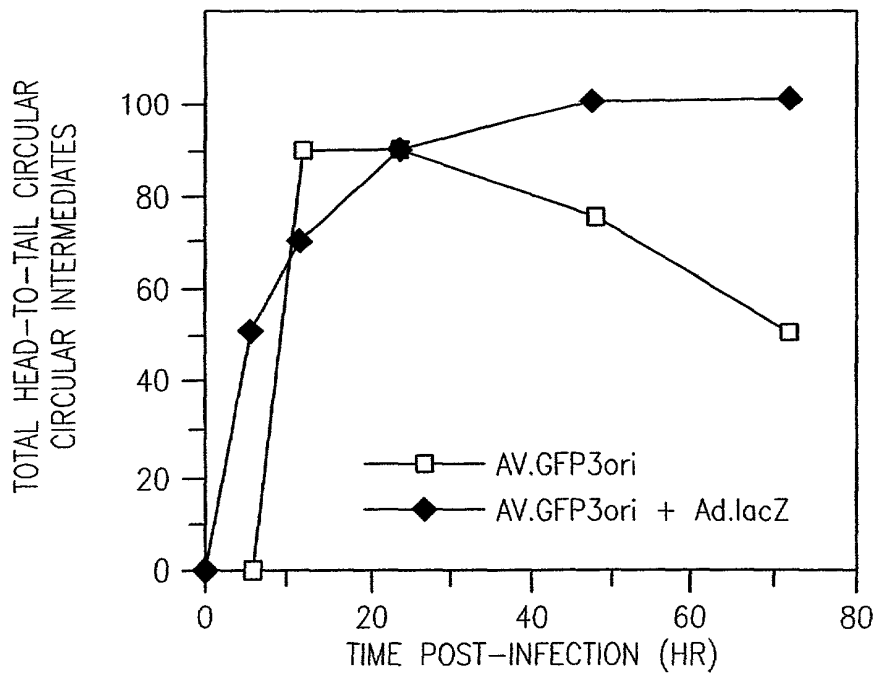


FIG. 3F

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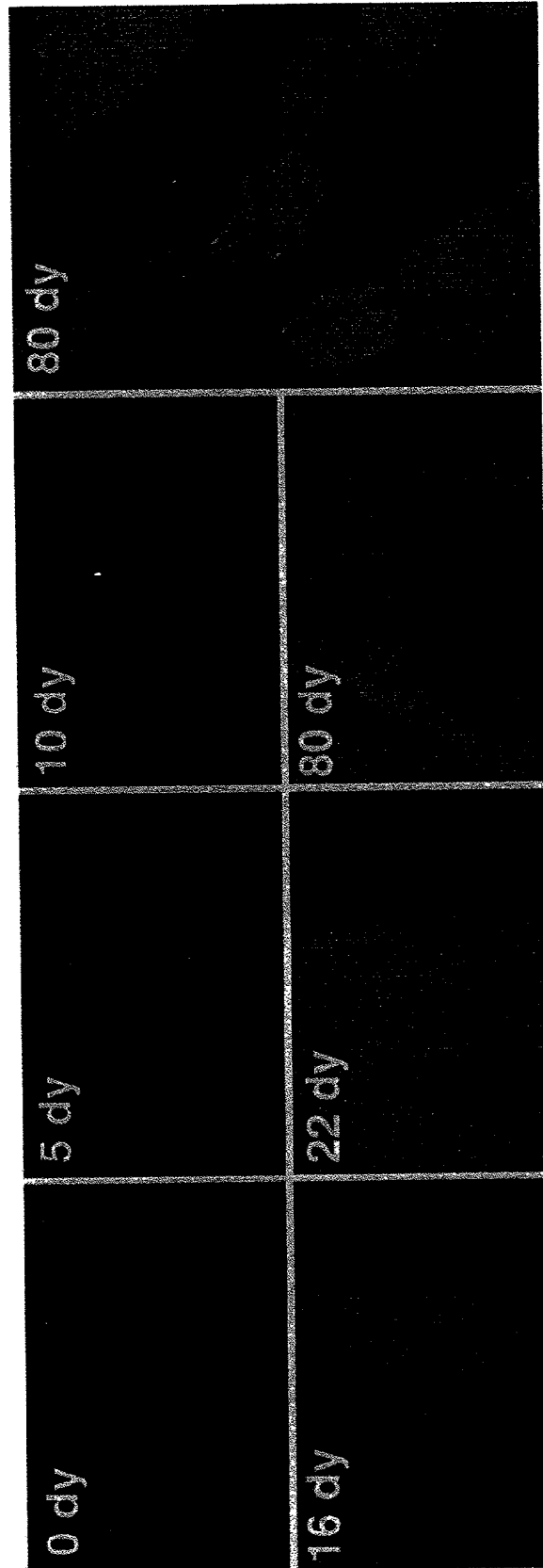


FIG. 4A

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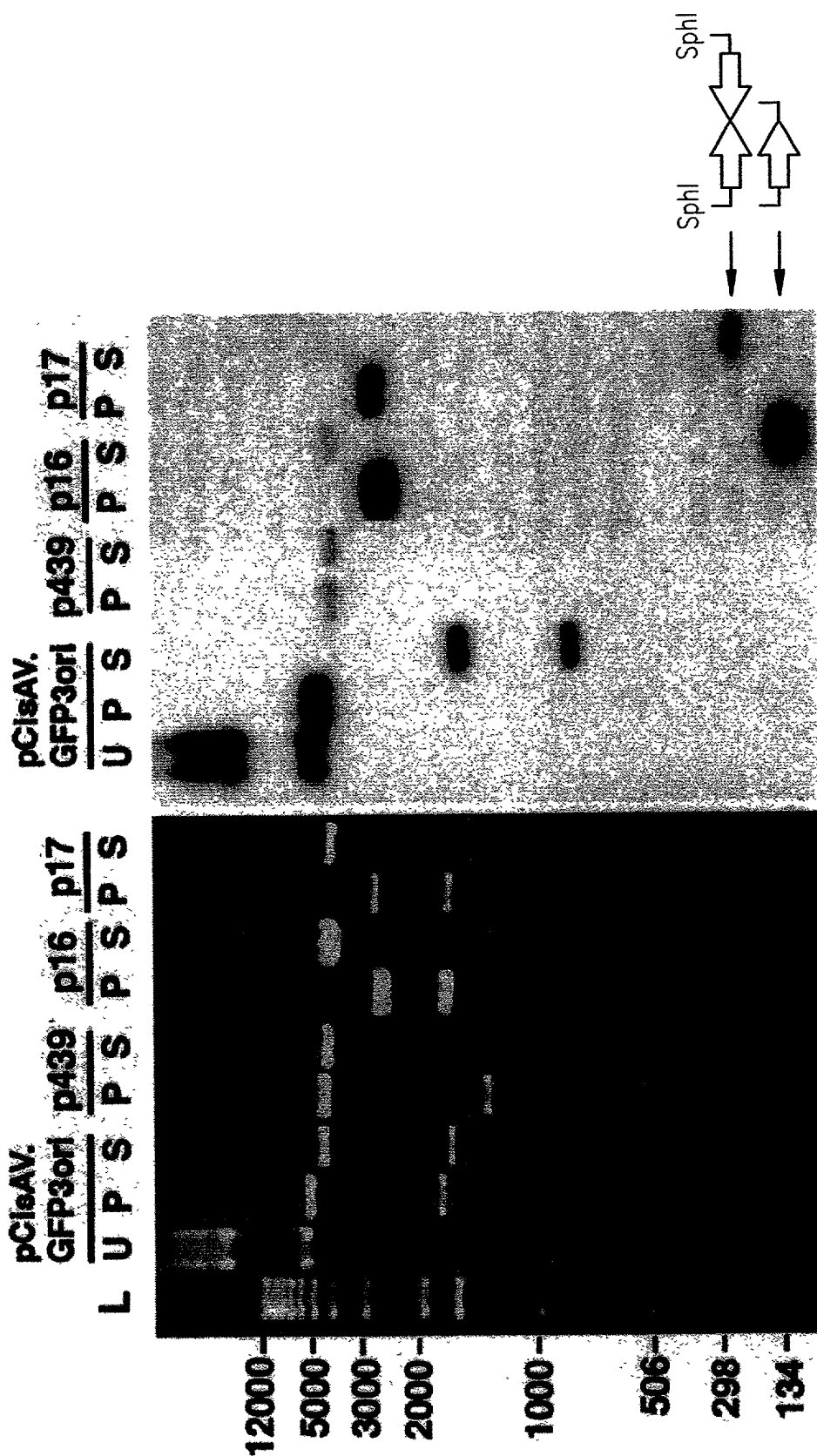


FIG. 4B

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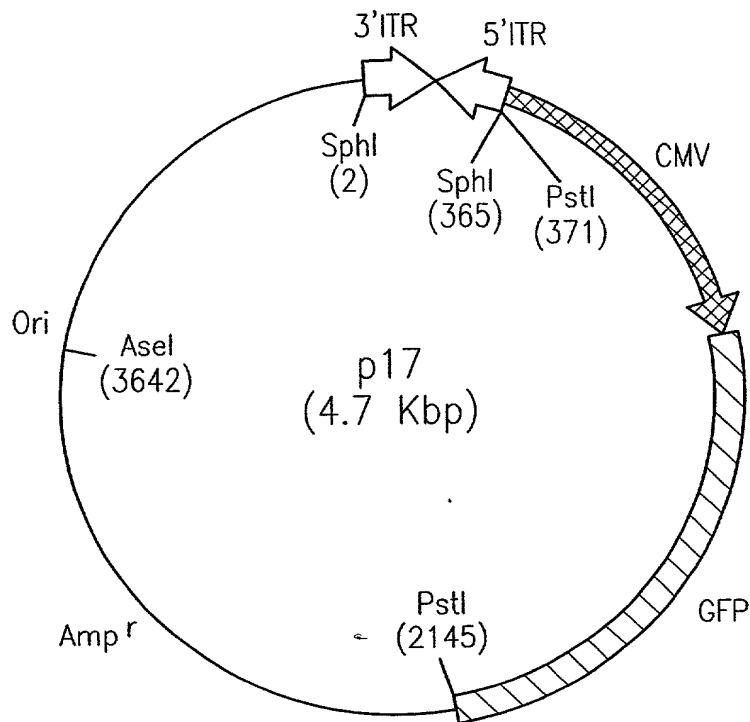


FIG. 4C

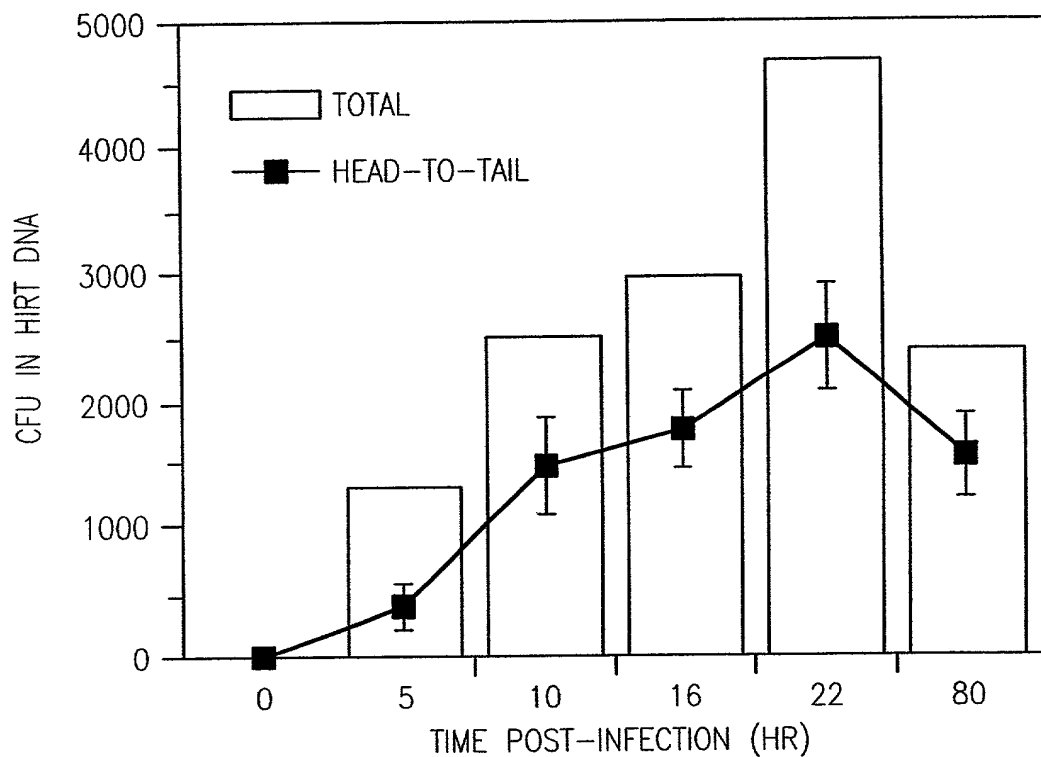


FIG. 5A

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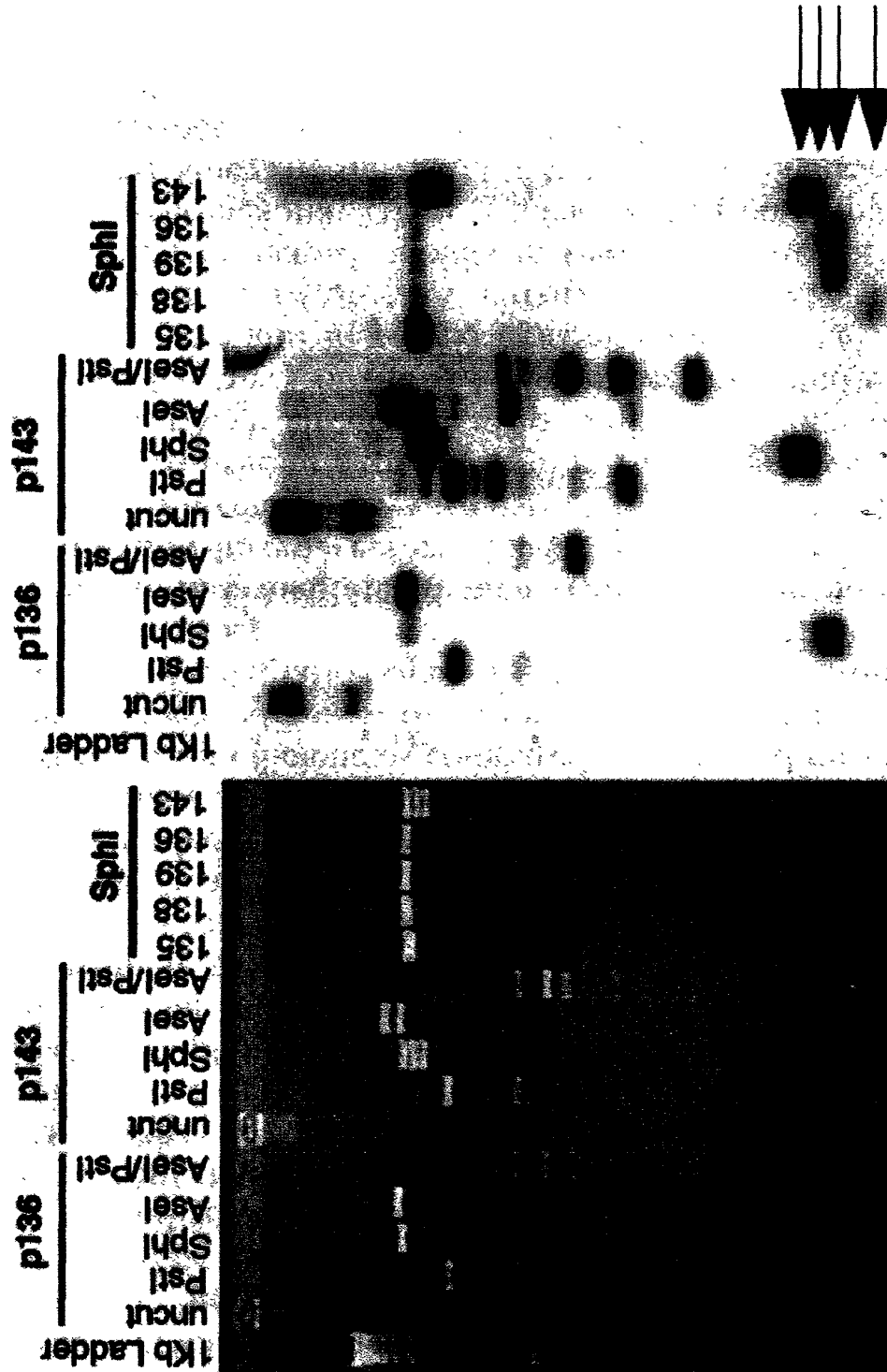


FIG. 5B

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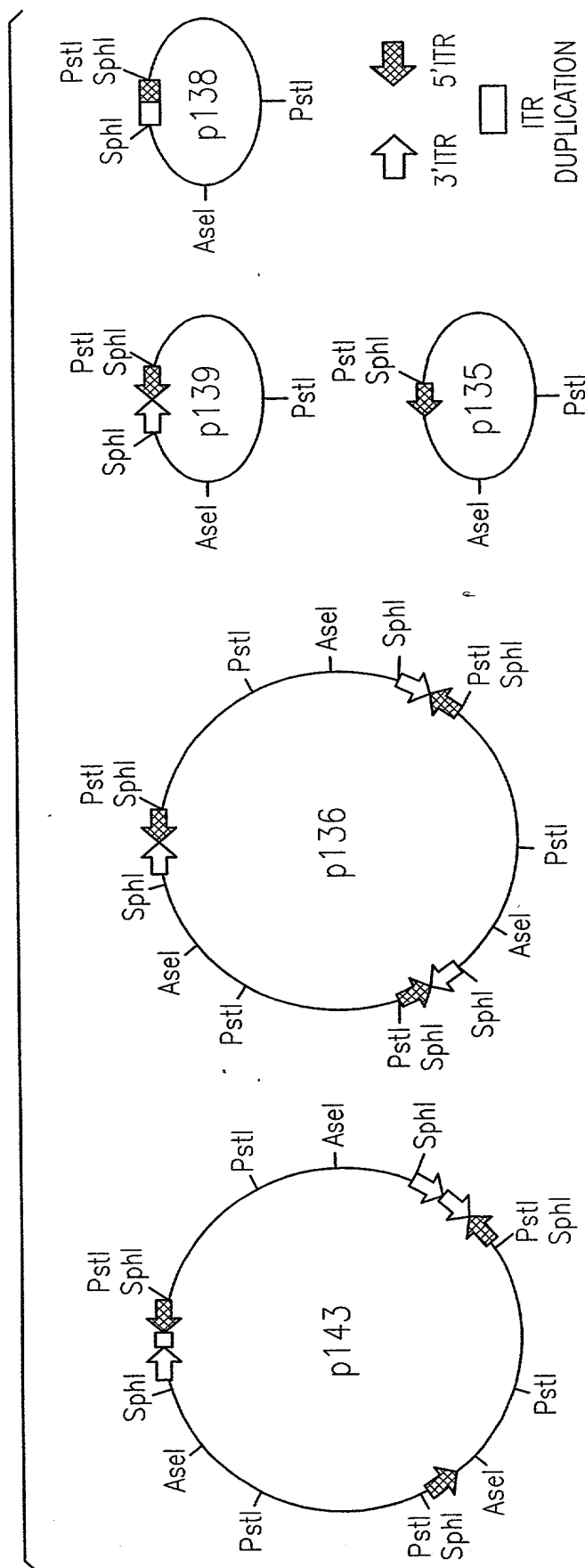


FIG. 5C

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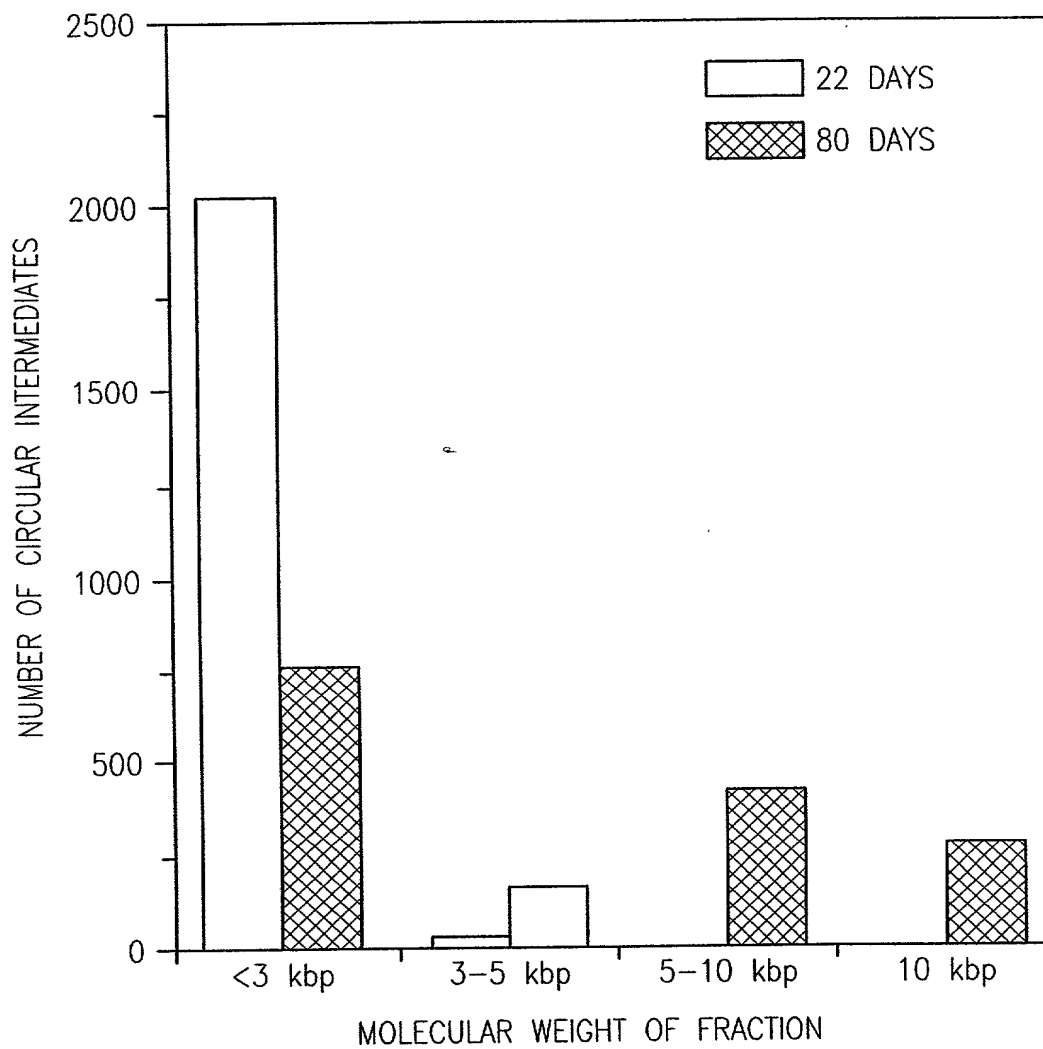
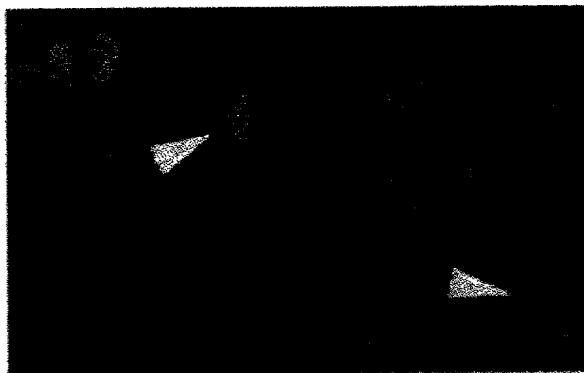


FIG. 6

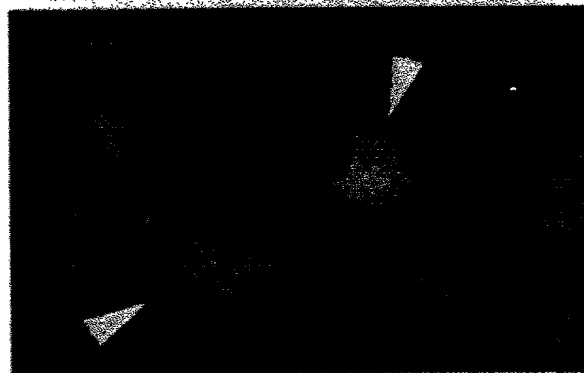
TITLE: ADENO-ASSOCIATED VIRUS VECTORS
INVENTORS NAME: John F. Engelhardt et al.
SERIAL NO.: 09/276,625

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p81



p87



pCMVGFP

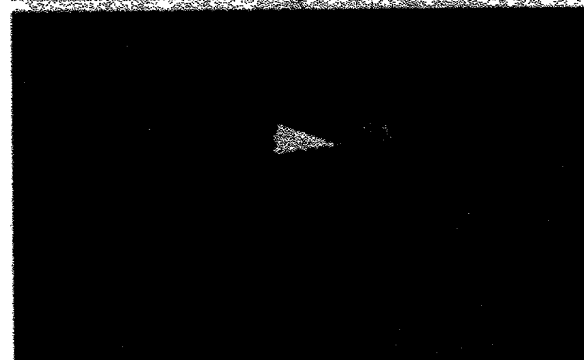


FIG. 7A

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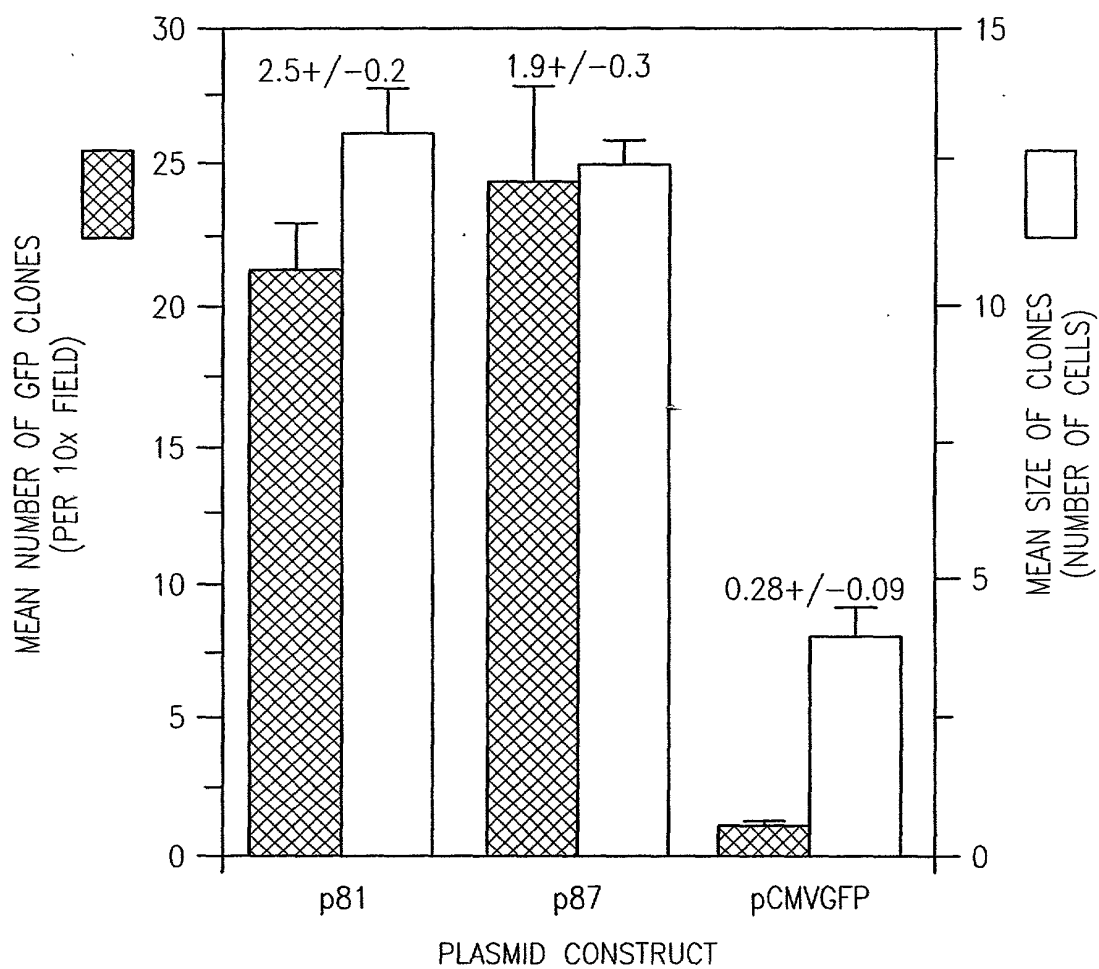


FIG. 7B

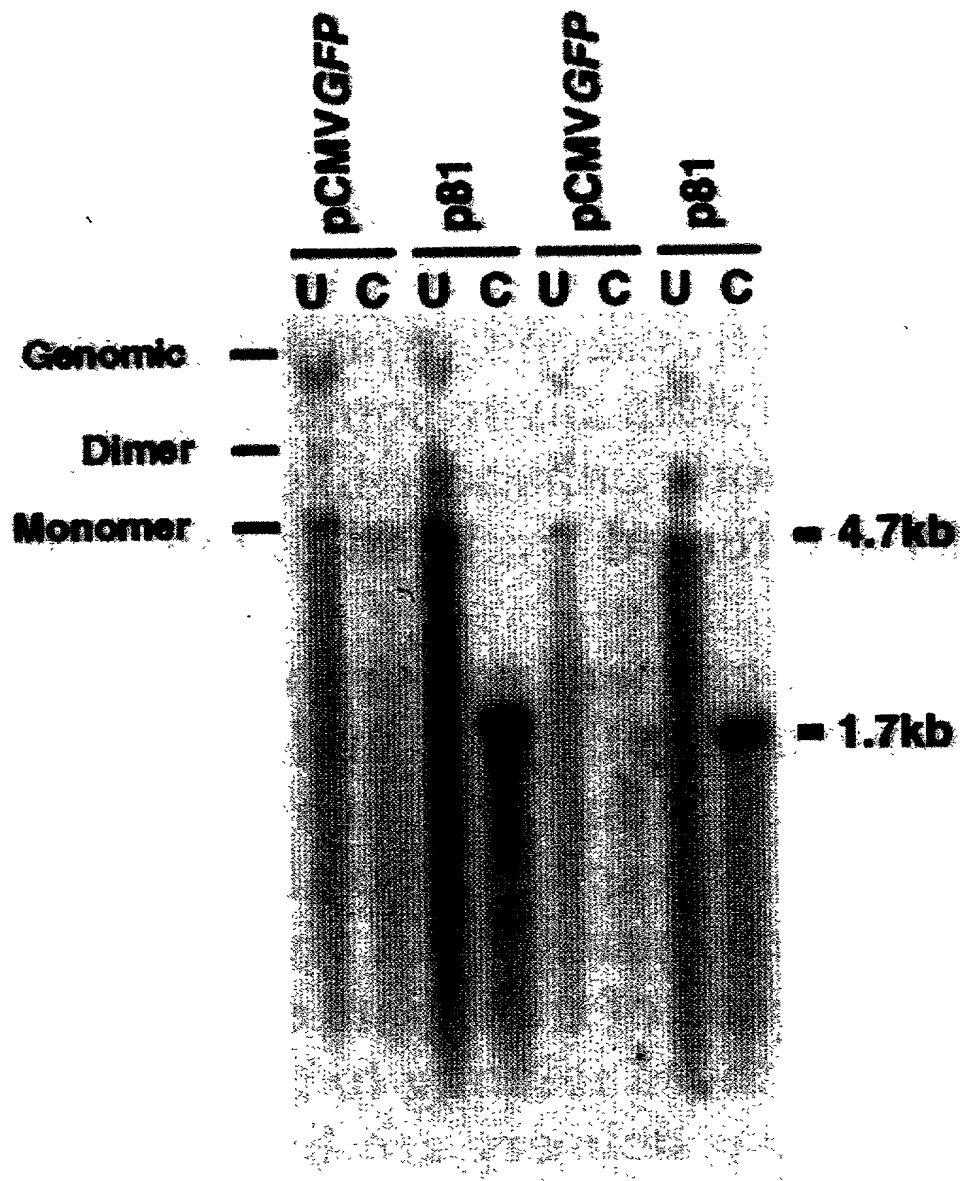


FIG. 7C

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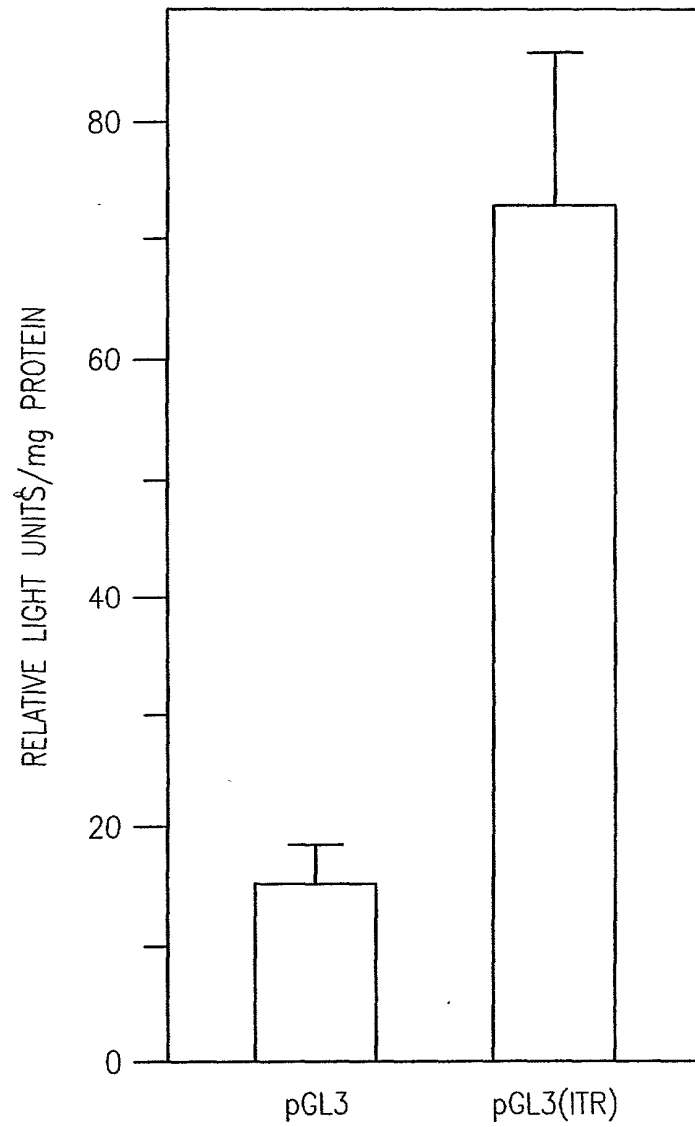


FIG. 7D

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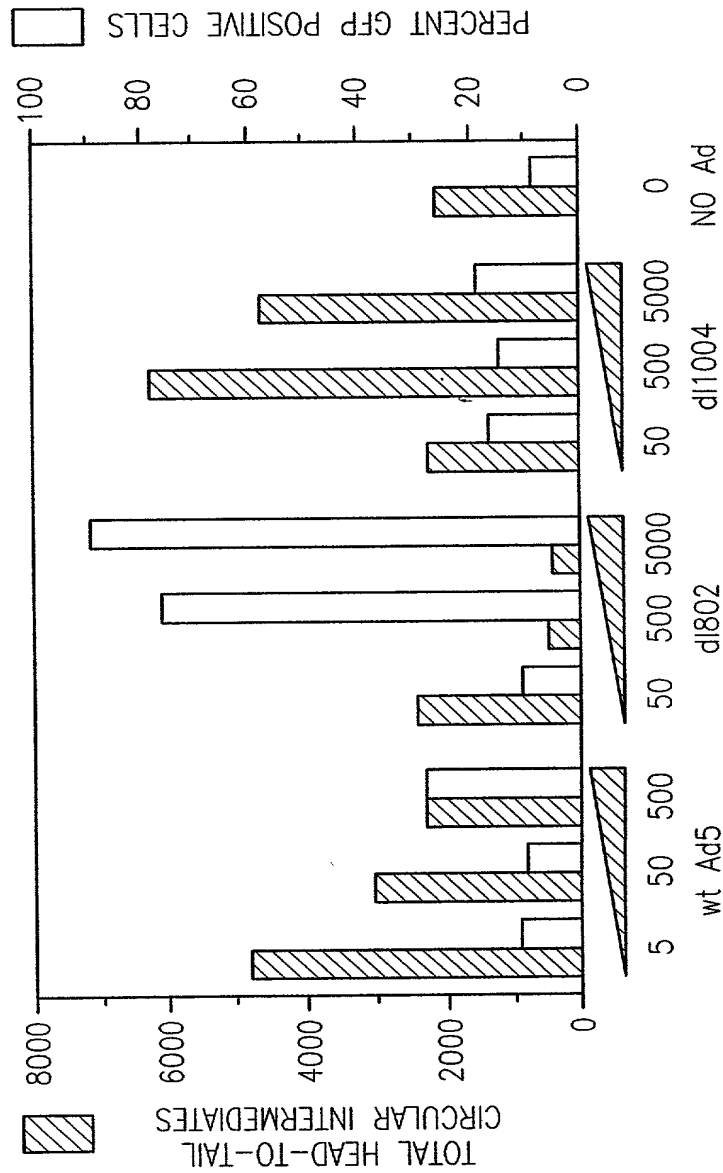


FIG. 8A

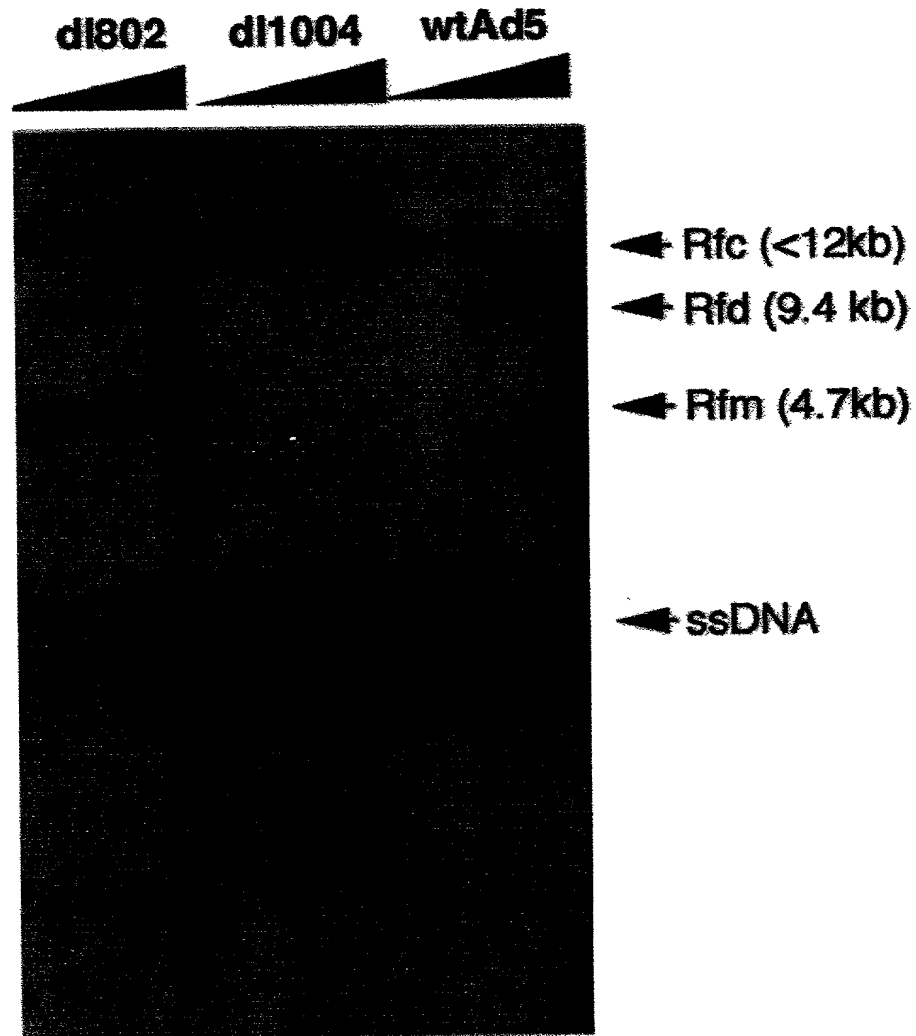


FIG. 8B

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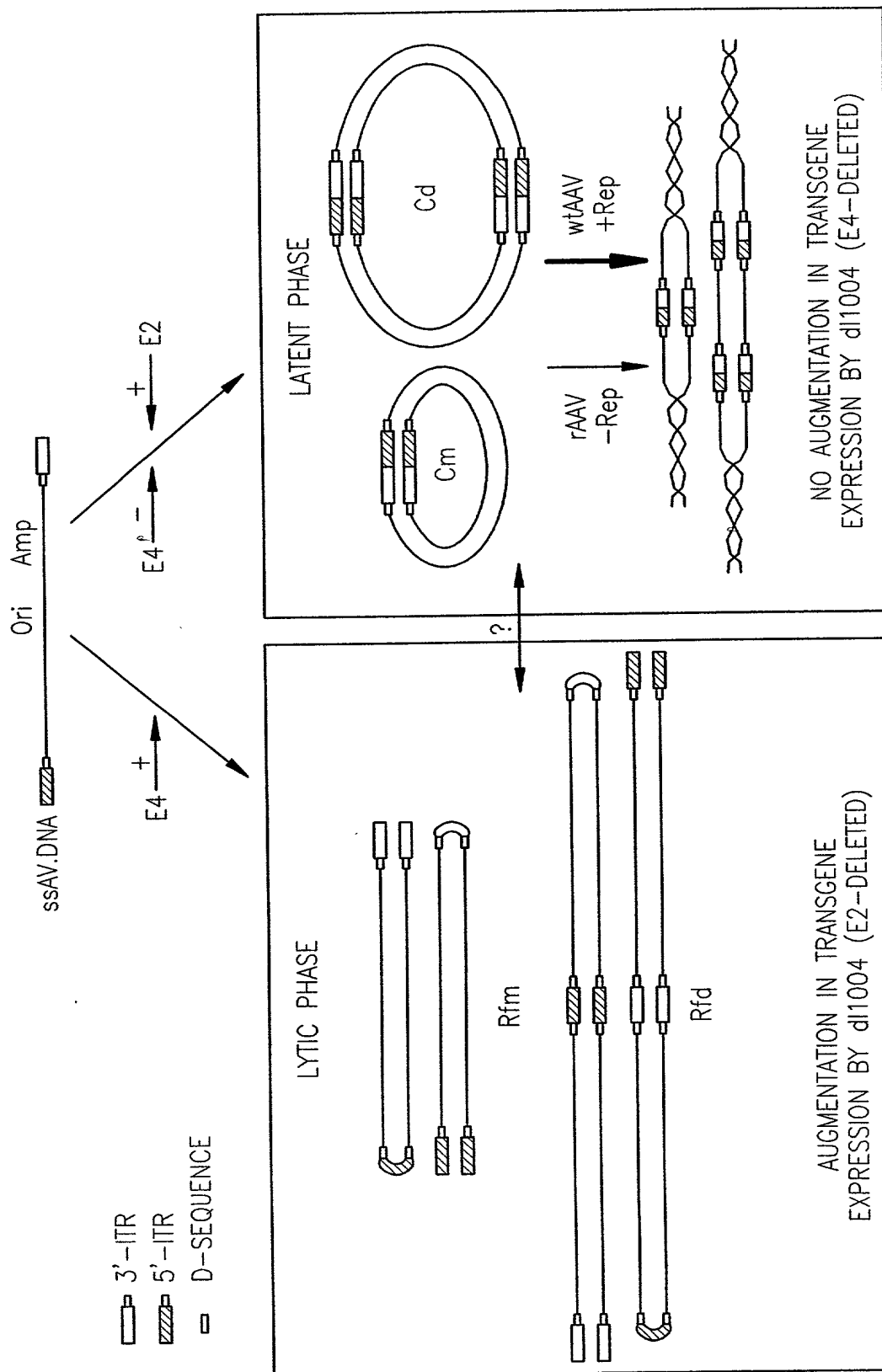


FIG. 9

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10 20 30 40 50 60
GCATGCAAGC TGTAGATAAG TAGCATGGCG GGTAAATCAT TAACTACAAG GAACCCCTAG
CGTACGTTTC ACATCTATTTC ATCGTACCGC CCAATTAGTA ATTGATGTTC CTTGGGGATC

70 80 90 100 110 120
TGATGGAGTT GGCCACTCCC TCTCTGCGCG CTCGCTCGCT CACTGAGGCC GGGCGGCCAA
ACTACCTCAA CCGGTGAGGG AGAGACGCGC GAGCGAGCGA GTGACTCCGG CCCGCCGGTT

130 140 150 160 170 180
AGGTCGCCCCG ACGCCCGGGC TTGCCCCGGG CGGCCTCAGT GAGCGAGCGA GCGCGCAGAG
TCCAGCGGGC TCGGGGCCCCG AAACGGGCCC GCCGGAGTCA CTCGCTCGCT CGCGCGTCTC

190 200 210 220 230 240
AGGGAGTGGC CAACTCCATC ACTAGGGGTT CCTTGTTAGTT AATGATTAAAC CCGCCATGCT
TCCCTACCG GTTGAGGTAG TGATCCCCAA GGAACATCAA TTACTAATTG GGCGGTACGA

250 260 270 280
ACTTATCTAC CGATGAATTC GAGCTTGCAAT GC.....
TGAATAGATG GCTACTTAAG CTCGAACGTA CG.....

FIG. 10A

10 20 30 40 50 60
GCATGCAAGC TGTAGATAAG TAGCATGGCG GGTAAATCAT TAACTACAAG GAACCCCTAG
CGTACGTTTC ACATCTATTTC ATCGTACCGC CCAATTAGTA ATTGATGTTC CTTGGGGATC

70 80 90 100 110 120
TGATGGAGTT GGCCACTCCC TCTCTGCGCG CTCGCTCGCT CACTGAGGCC GGGCGCGCGC
ACTACCTCAA CCGGTGAGGG AGAGACGCGC GAGCGAGCGA GTGACTCCGG CCCGCCGGCG

130 140 150 160 170 180
TCGCTCGCTC ACTGAGGCCG GGCGACCAAA GGTCGCCCCG GCCCGGGCTT TGCCCGGGCG
AGCGAGCGAG TGAATCCGGC CCGCTGGTTT CCAGCGGGCT CGGGCCCGAA ACGGGCCCCG

190 200 210 220 230 240
GCCTCAGTGA GCGAGCGCGC GCGCAGAGAG GGAGTGGCCA ACTCCATCAC TAGGGGTTCC
CGGAGTCACT CGCTCGCGCG CGCGTCTCTC CCTCACCGGT TGAGGTAGTG ATCCCCAAGG

250 260 270 280 290 300
TTGTAGTTAA TGATTAAACC GCCATGCTAC TTATCTACCG ATGAATTCGA GCTTGCAATGC
AACATCAATT ACTAATTGGG CCGTACGATG AATAGATGGC TACTTAAAGCT CGAACGTACG

FIG. 10B

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10	20	30	40	50	60
GCATGCAAGC	TGTAGATAAG	TAGCATGGCG	GGTTAATCAT	TAACTACAAG	GAACCCCTAG
CGTACGTTTCG	ACATCTATTTC	ATCGTACCGC	CCAATTAGTA	ATTGATGTTTC	CTTGGGGGATC
70	80	90	100	110	120
TGATGGAGTT	GGCCACTCCC	TCTCTGCGCG	CTCGCTCGCT	CACTGAGGCC	GGGCGACCAA
ACTACCTCAA	CCGGTGAGGG	AGAGACGCGC	GAGCGAGCGA	GTGACTCCGG	CCCGCTGGTT
130	140	150	160	170	180
AGGTCGCCCCG	ACGCCCCGGGC	TTTGGTCGCC	CGGCCTCAGT	GAGCGAGCGA	GCGCGCAGAG
TCCAGCGGGC	TGCGGGCCCCG	AAACCAGCGG	GCCGGAGTCA	CTCGCTCGCT	CGCGCGTCTC
190	200	210	220	230	240
AGGGAGTGGC	CAACTCCATC	ACTAGGGGTT	CCTTGTAAGT	AATGATTAAAC	CCGCCATGCT
TCCCTCACCG	GTTGAGGTAG	TGATCCCCAA	GGAACATCAA	TTACTAATTG	GGCGGTACGA
250	260	270	280		
ACTTATCTAC	CGATGAATTTC	GAGCTTGCAAT	GC.....		
TGAATAGATG	GCTACTTAAG	CTCGAACGTA	CG.....		

FIG. 10C

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		10	20	30	40	50	
P81	1	GCATGCAAGC	TGTAGATAAG	TAGCATGGCG	GGTTAATCAT	TAACTACAAG	50
p79	1	GCATGCAAGC	TGTAGATAAG	TAGCATGGCG	GGTTAATCAT	TAACTACAAG	50
p1202	1	GCATGCAAGC	TGTAGATAAG	TAGCATGGCG	GGTTAATCAT	TAACTACAAG	50
		60	70	80	90	100	
P81	51	GAACCCCTAG	TGATGGAGTT	GGCCACTCCC	TCTCTGCGCG	CTCGCTCGCT	100
p79	51	GAACCCCTAG	TGATGGAGTT	GGCCACTCCC	TCTCTGCGCG	CTCGCTCGCT	100
p1202	51	GAACCCCTAG	TGATGGAGTT	GGCCACTCCC	TCTCTGCGCG	CTCGCTCGCT	100
		110	120	130	140	150	
P81	101	CACTGAGGCC	GGGCG-----	-----	-----	---GCCAAAG	150
p79	101	CACTGAGGCC	GGGCGCGCGC	TCGCTCGCTC	ACTGAGGCCG	GGCGaCcAAa	150
p1202	101	CACTGAGGCC	GGGCG-----	-----	-----	---ACCAAAG	150
		160	170	180	190	200	
P81	151	GTCGCCCCGAC	GCCCCGGGCTT	TGCCCCGGGCG	GCCTCAGTGA	GCGAGCGAGC	200
p79	151	GgtcgCCCCga	GCCCCGGGCTT	TGCCCCGGGCG	GCCTCAGTGA	GCGAGCGcGC	200
p1202	151	GTCGCCCCGAC	GCCCCGGGCTT	TGgtCGccCG	GCCTCAGTGA	GCGAGCGAGC	200
		210	220	230	240	250	
P81	201	GCGCAGAGAG	GGAGTGGCCA	ACTCCATCAC	TAGGGGTTCC	TTGTAGTTAA	250
p79	201	GCGCAGAGAG	GGAGTGGCCA	ACTCCATCAC	TAGGGGTTCC	TTGTAGTTAA	250
p1202	201	GCGCAGAGAG	GGAGTGGCCA	ACTCCATCAC	TAGGGGTTCC	TTGTAGTTAA	250
		260	270	280	290	300	
P81	251	TGATTAACCC	GCCATGCTAC	TTATCTACCG	ATGAATTCTGA	GCTTGCATGC	300
p79	251	TGATTAACCC	GCCATGCTAC	TTATCTACCG	ATGAATTCTGA	GCTTGCATGC	300
p1202	251	TGATTAACCC	GCCATGCTAC	TTATCTACCG	ATGAATTCTGA	GCTTGCATGC	300

FIG. 11

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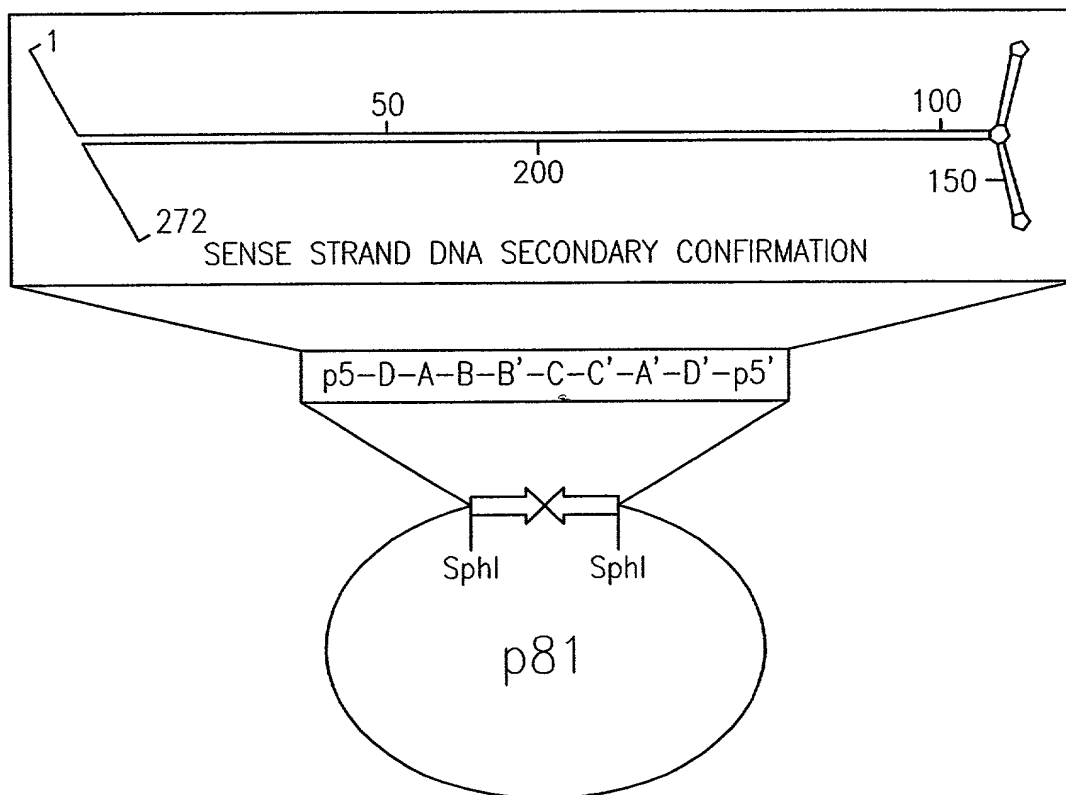


FIG. 12A

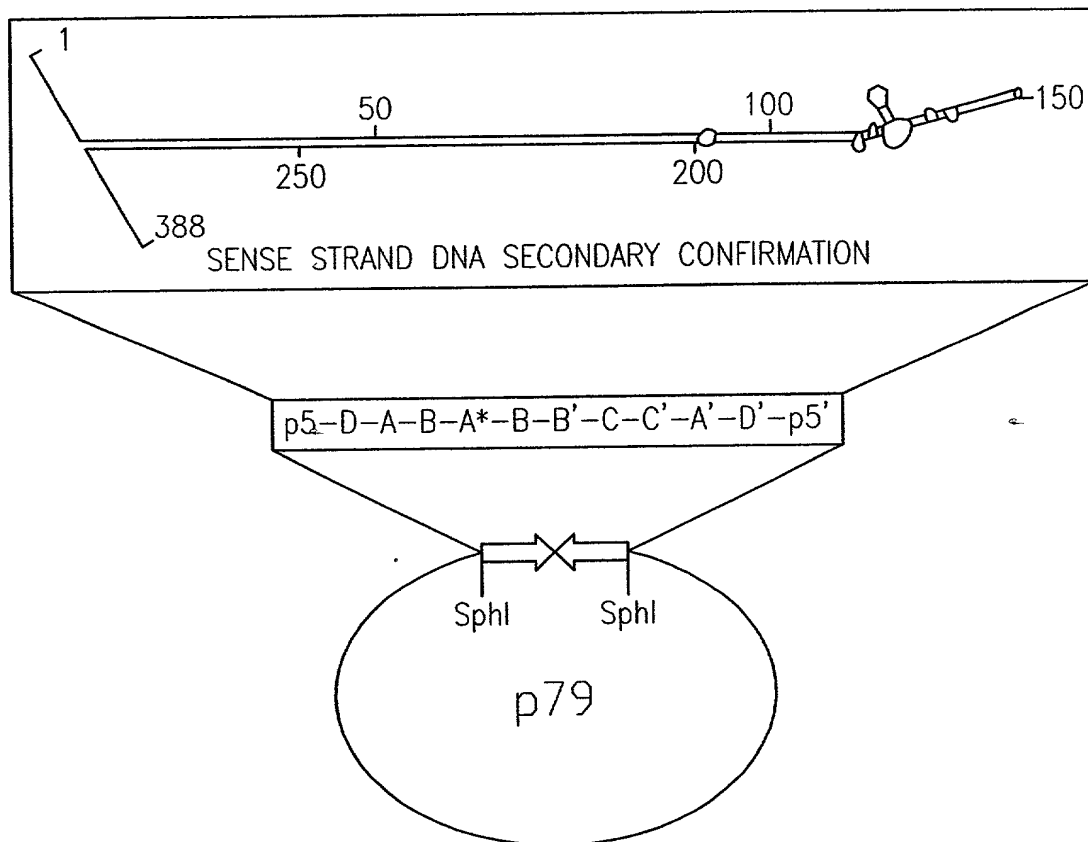


FIG. 12B

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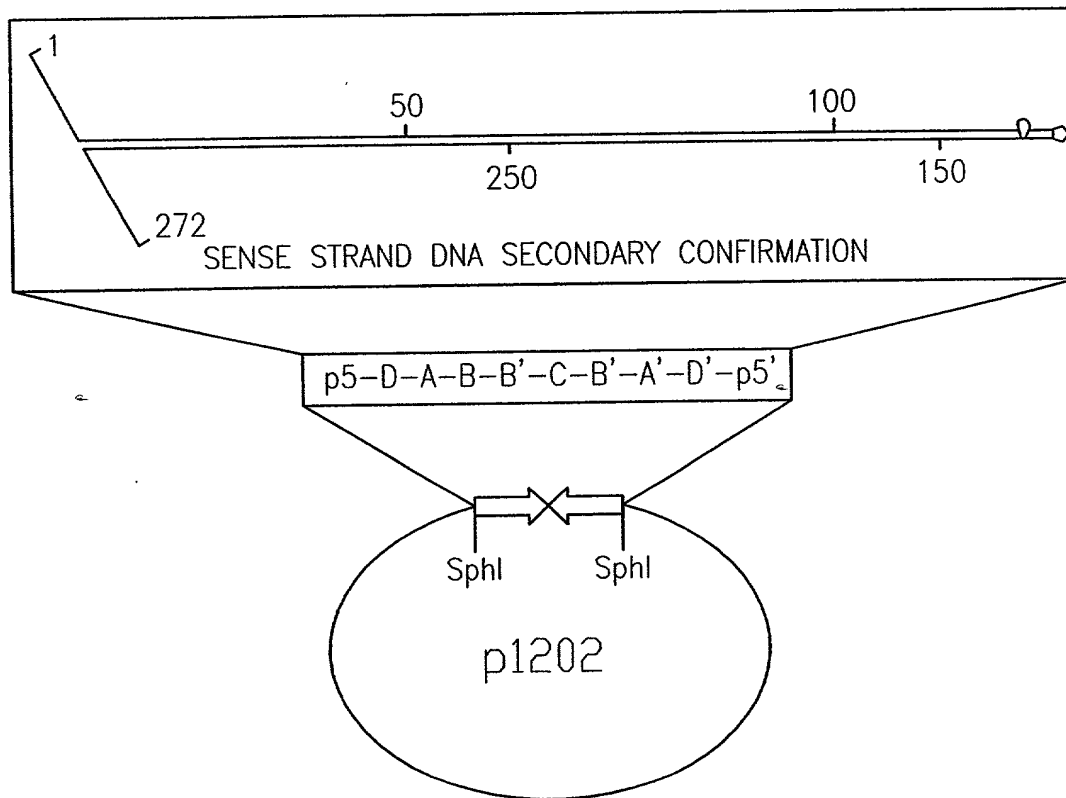


FIG. 12C

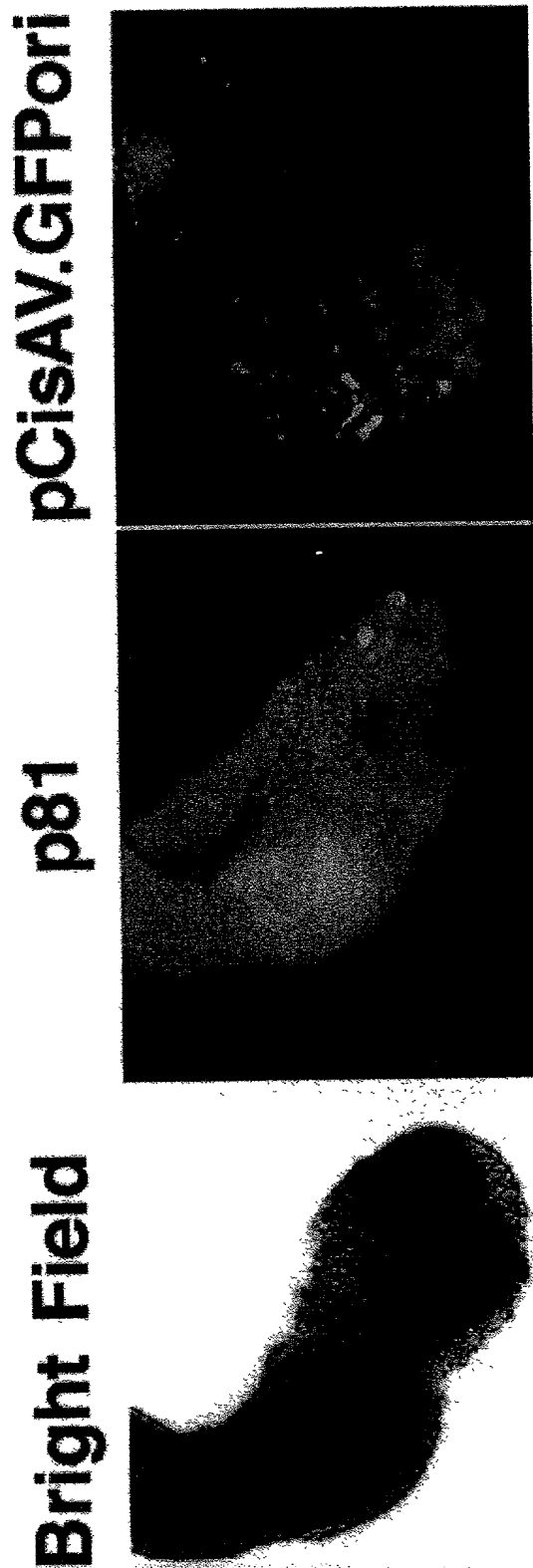


FIG. 13

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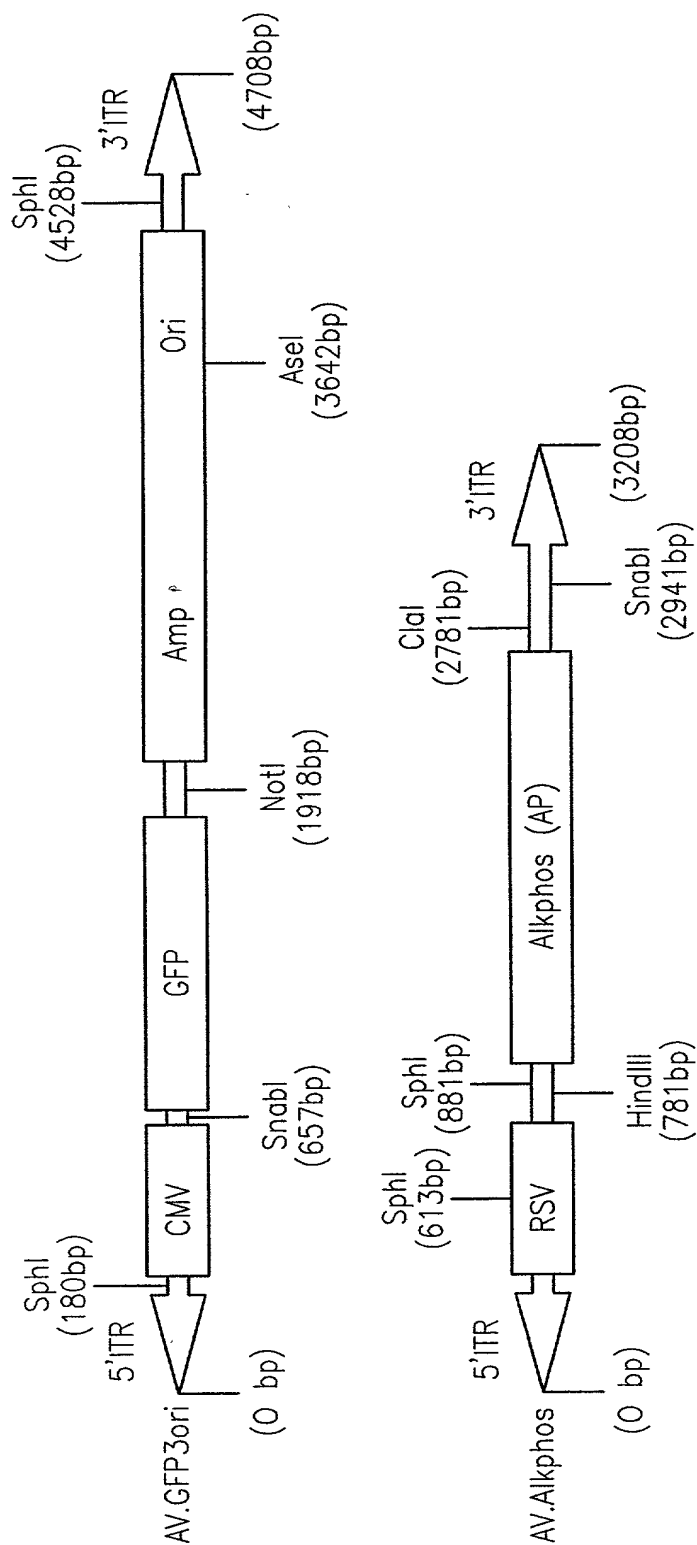


FIG. 14A

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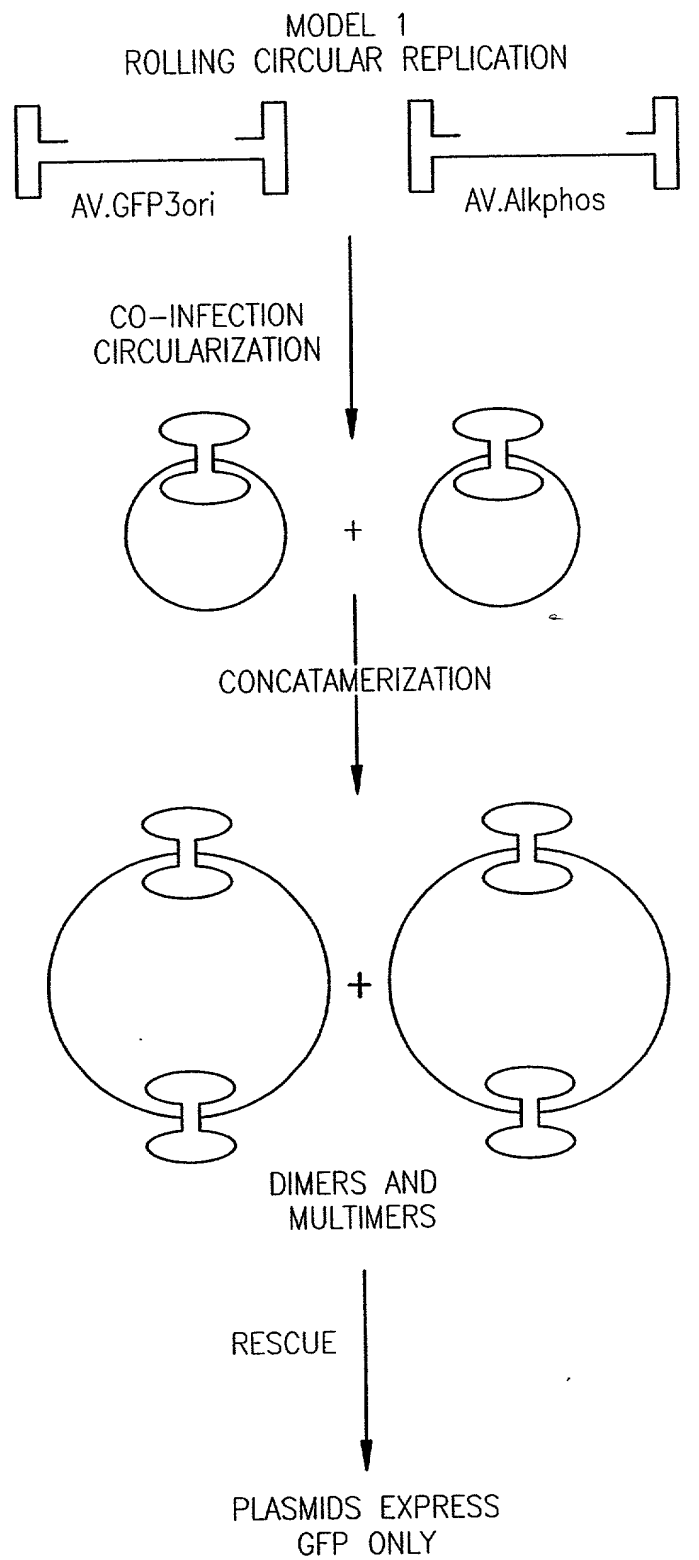


FIG. 14B

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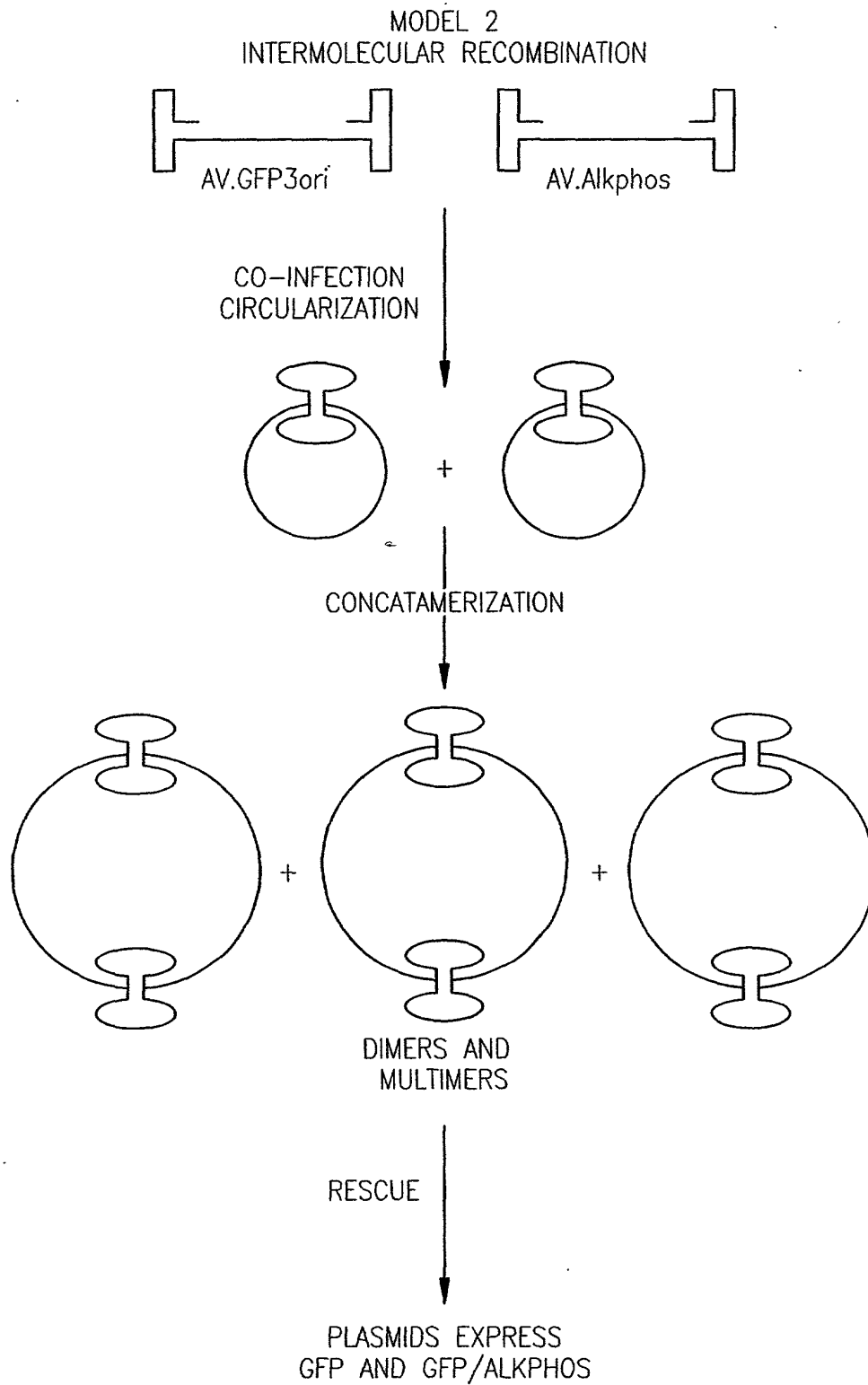


FIG. 14C

TITLE: ADENO-ASSOCIATED VIRUS VECTORS
INVENTORS NAME: John F. Engelhardt et al.
SERIAL NO.: 09/276,625

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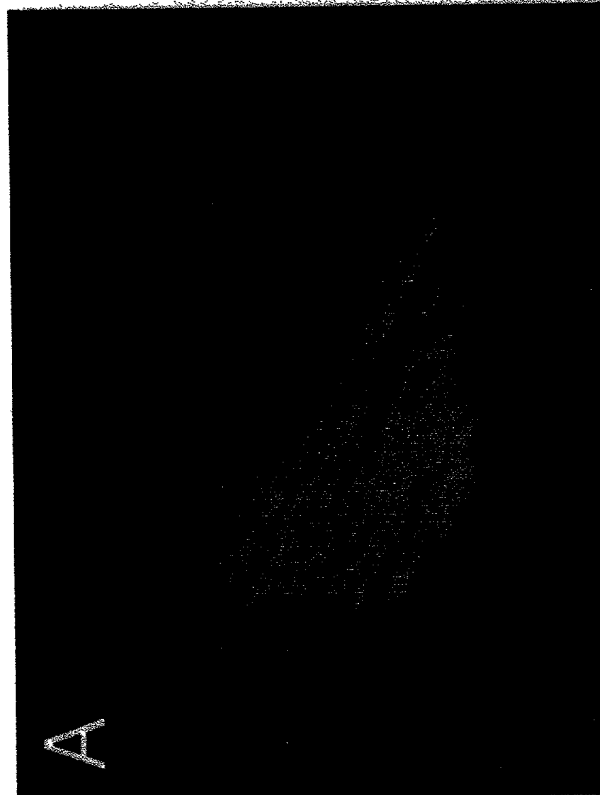


FIG. 15A

TITLE: ADENO-ASSOCIATED VIRUS VECTORS
INVENTORS NAME: John F. Engelhardt et al.
SERIAL NO.: 09/276,625

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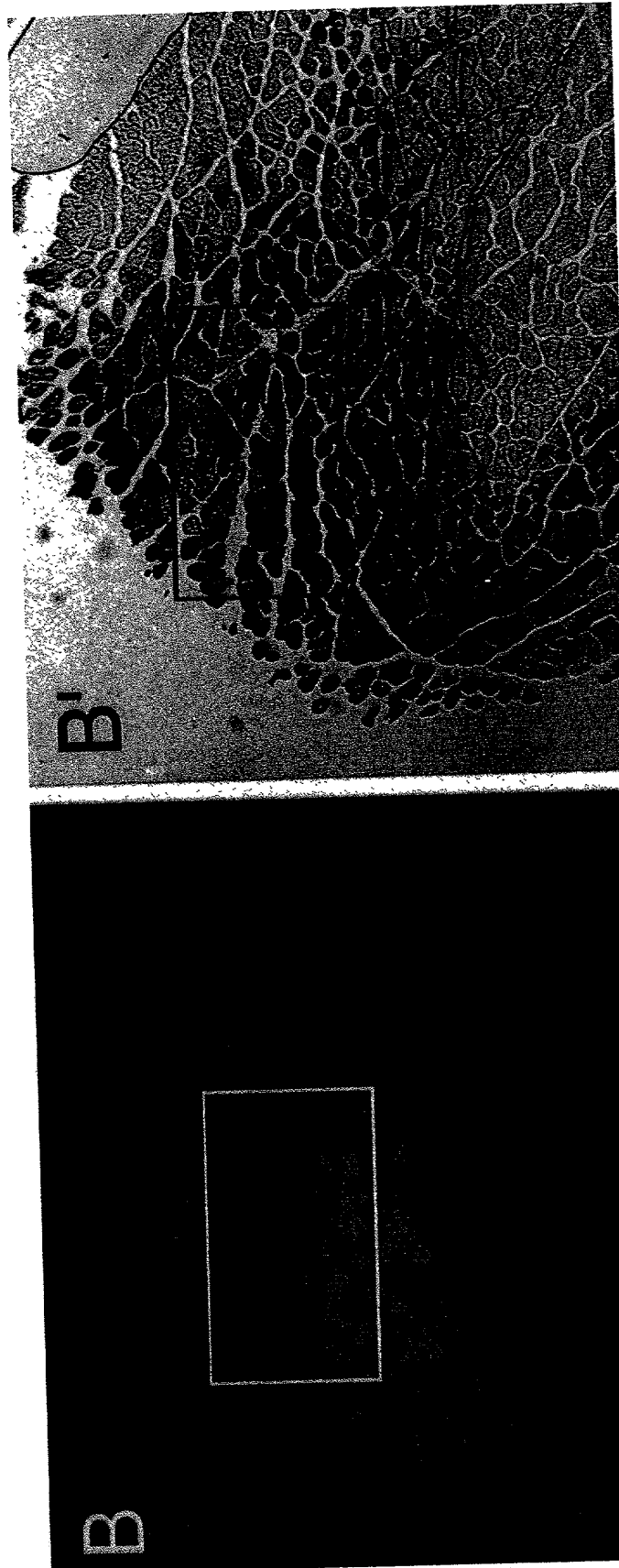


FIG. 15B

TITLE: ADENO-ASSOCIATED VIRUS VECTORS
INVENTORS NAME: John F. Engelhardt et al.
SERIAL NO.: 09/276,625

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FIG. 15C

TITLE: ADENO-ASSOCIATED VIRUS VECTORS
INVENTORS NAME: John F. Engelhardt et al.
SERIAL NO.: 09/276,625

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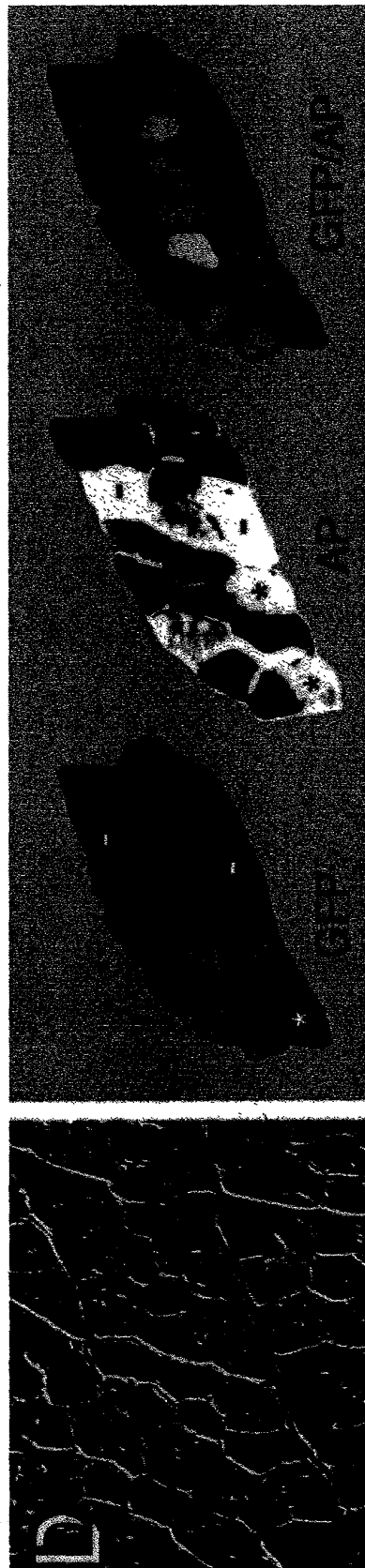


FIG. 15D

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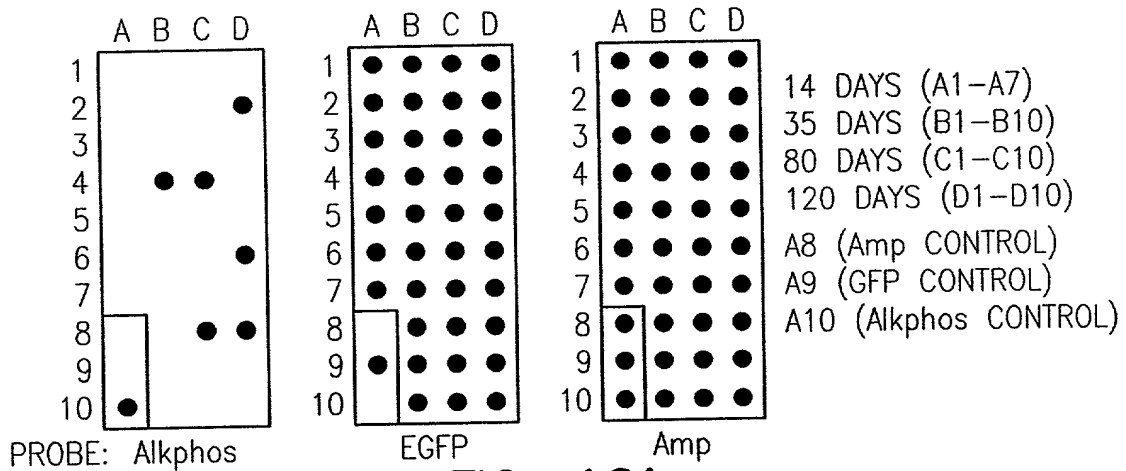


FIG. 16A

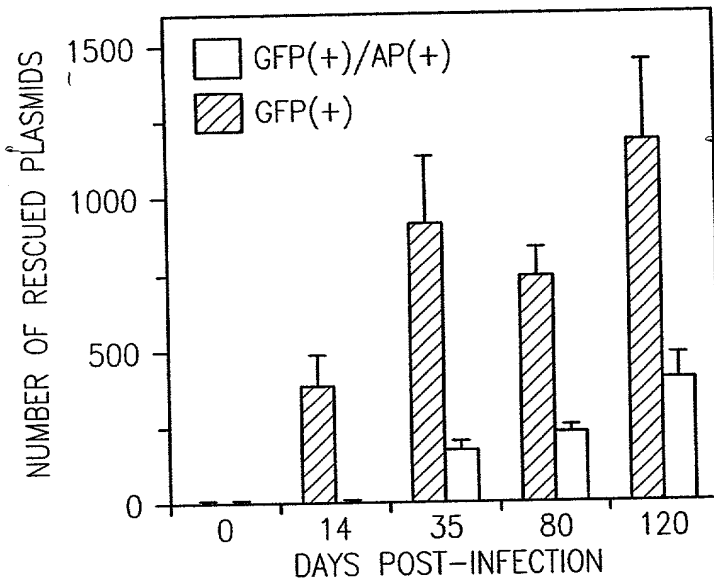


FIG. 16B

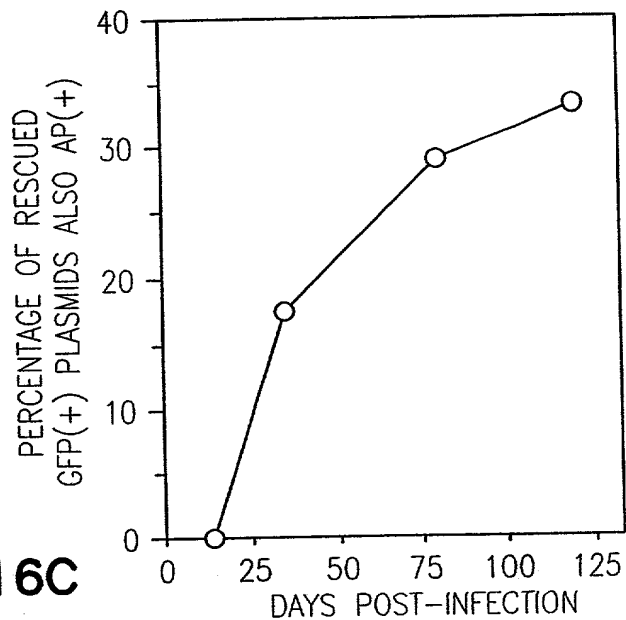


FIG. 16C

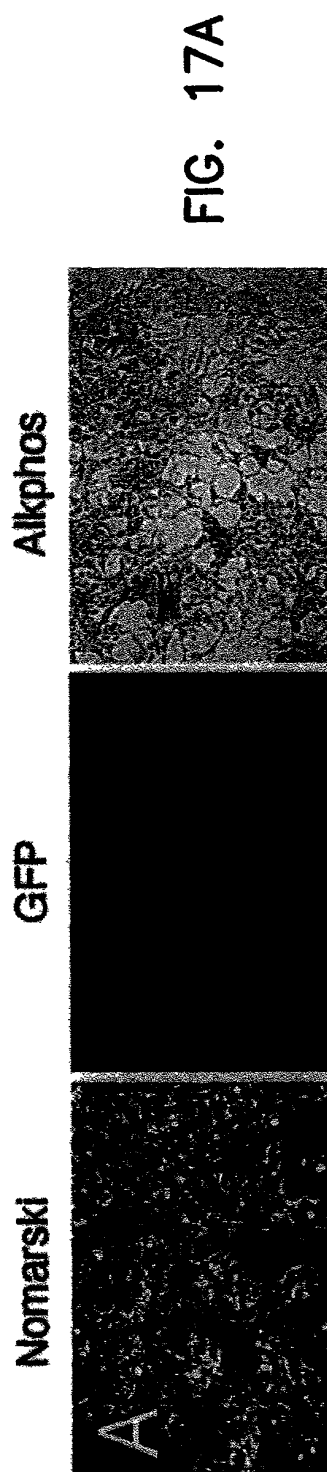


FIG. 17A

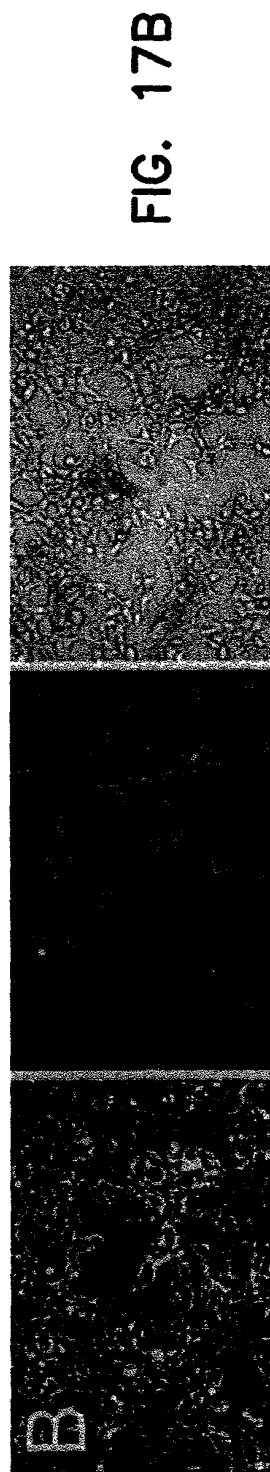


FIG. 17B

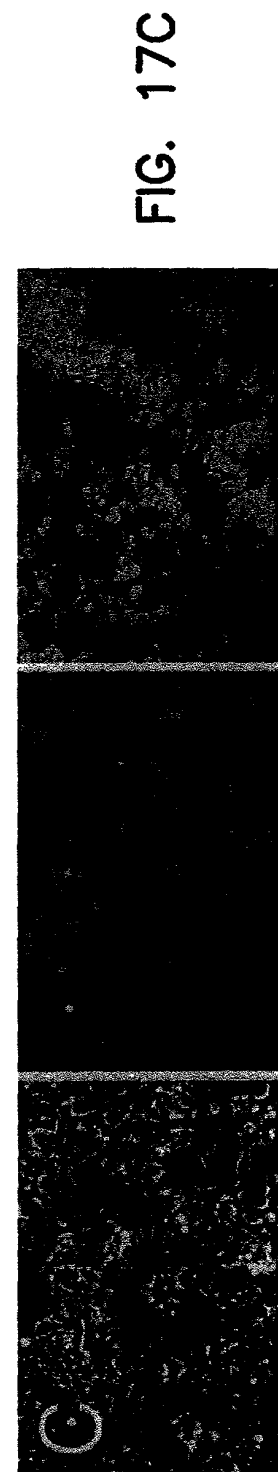


FIG. 17C

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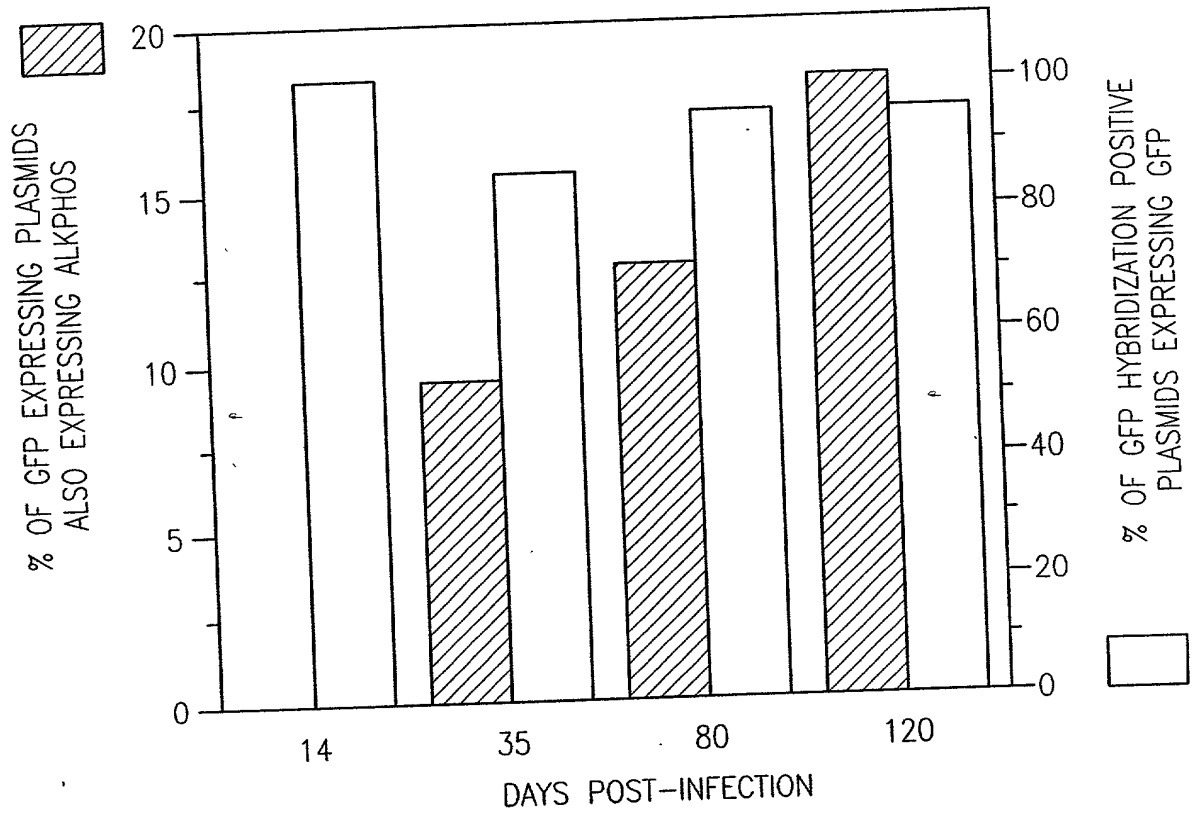


FIG. 17D

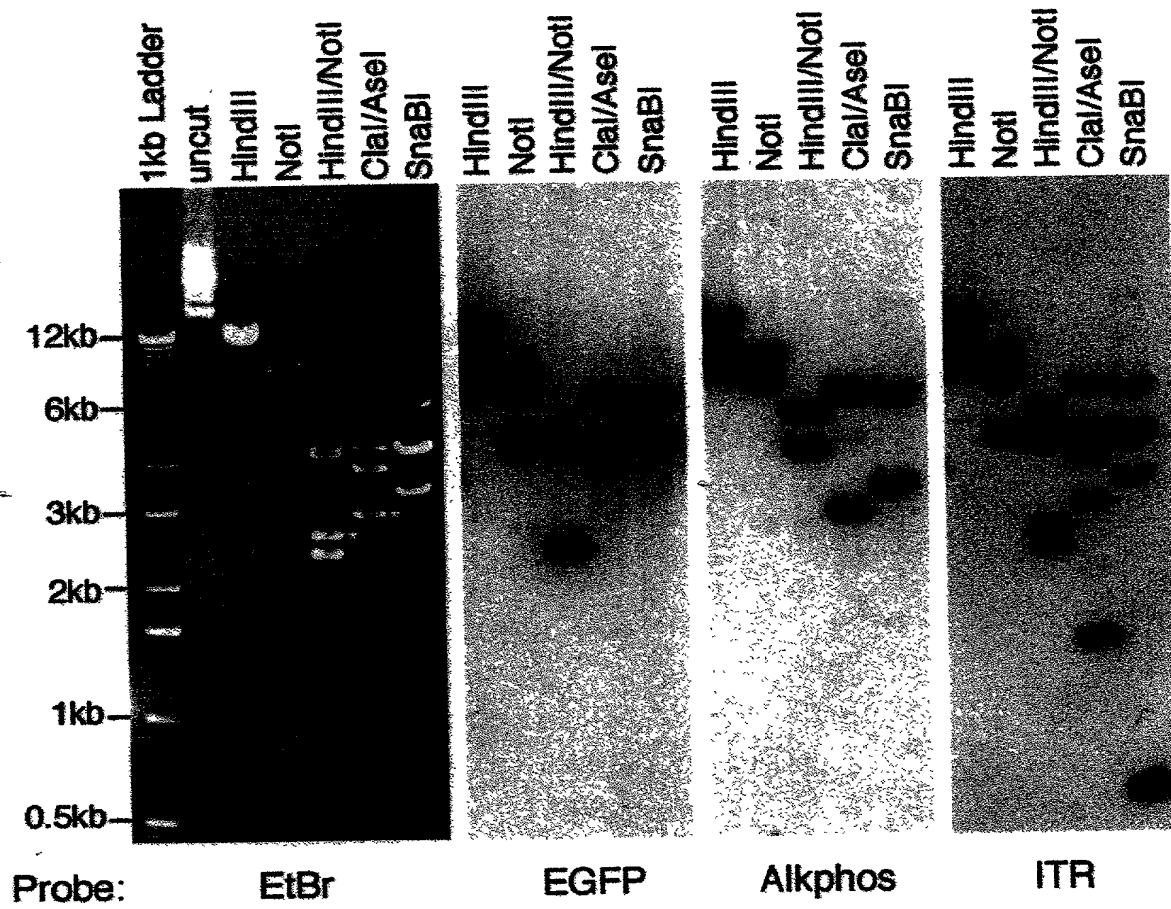


FIG. 18A

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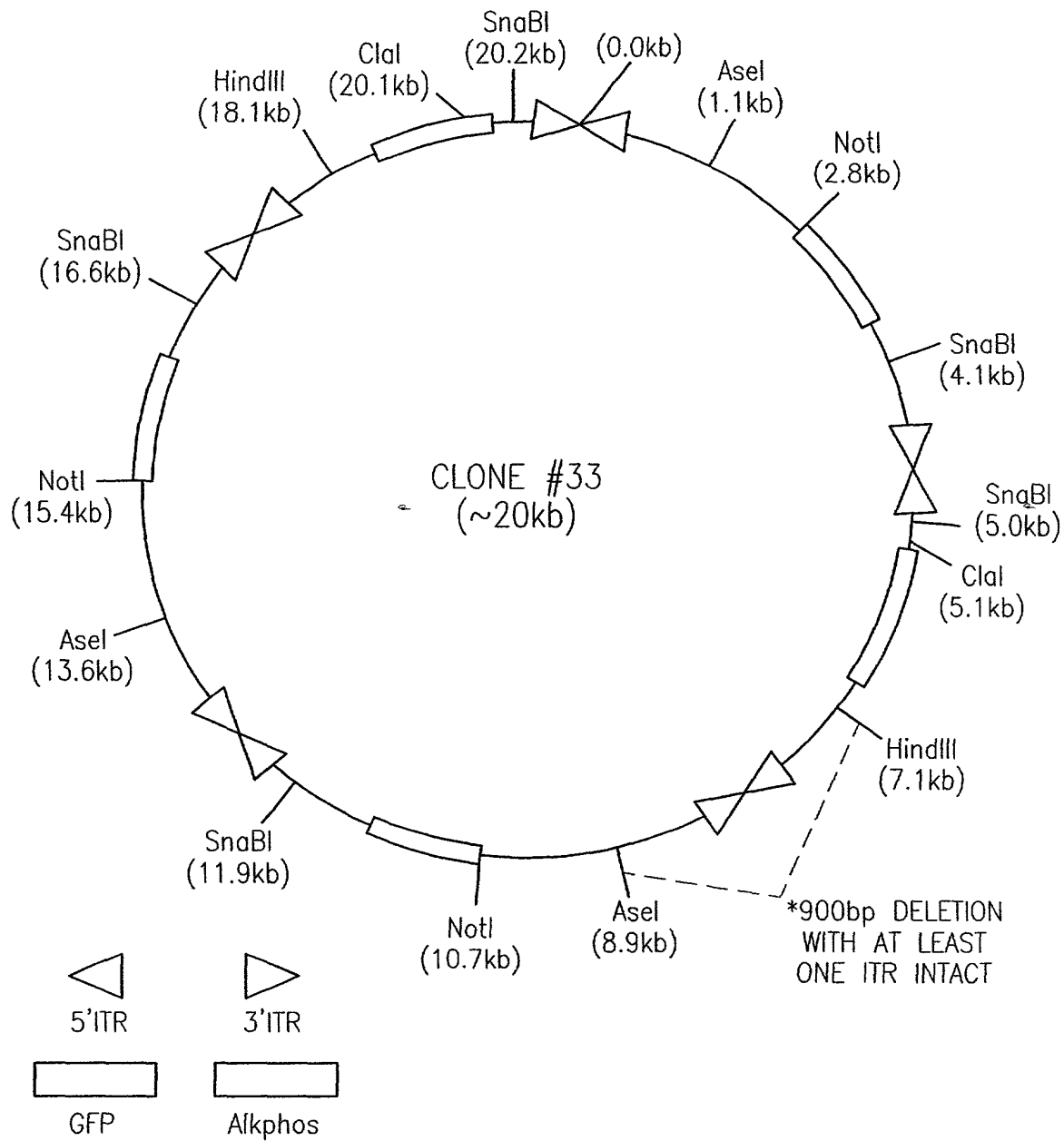


FIG. 18B

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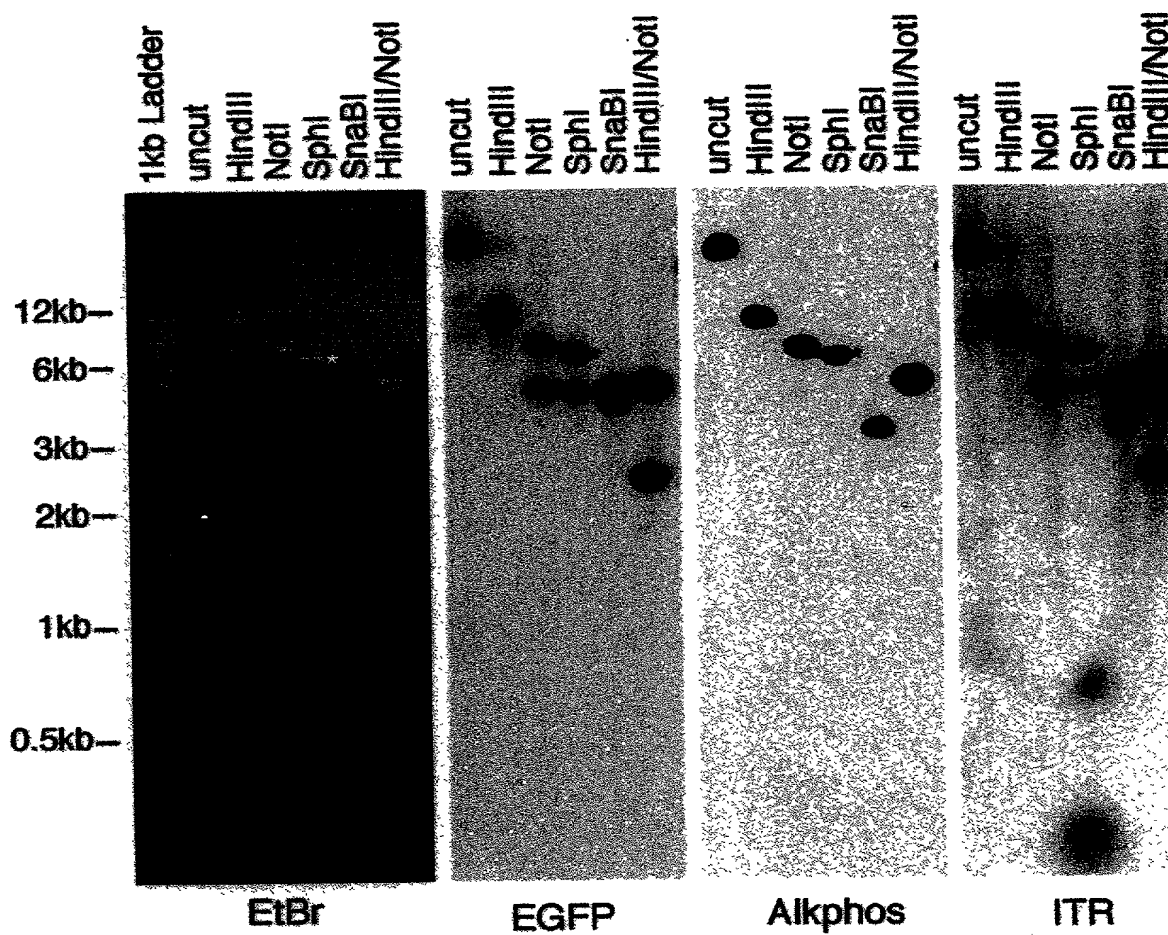


FIG. 18C

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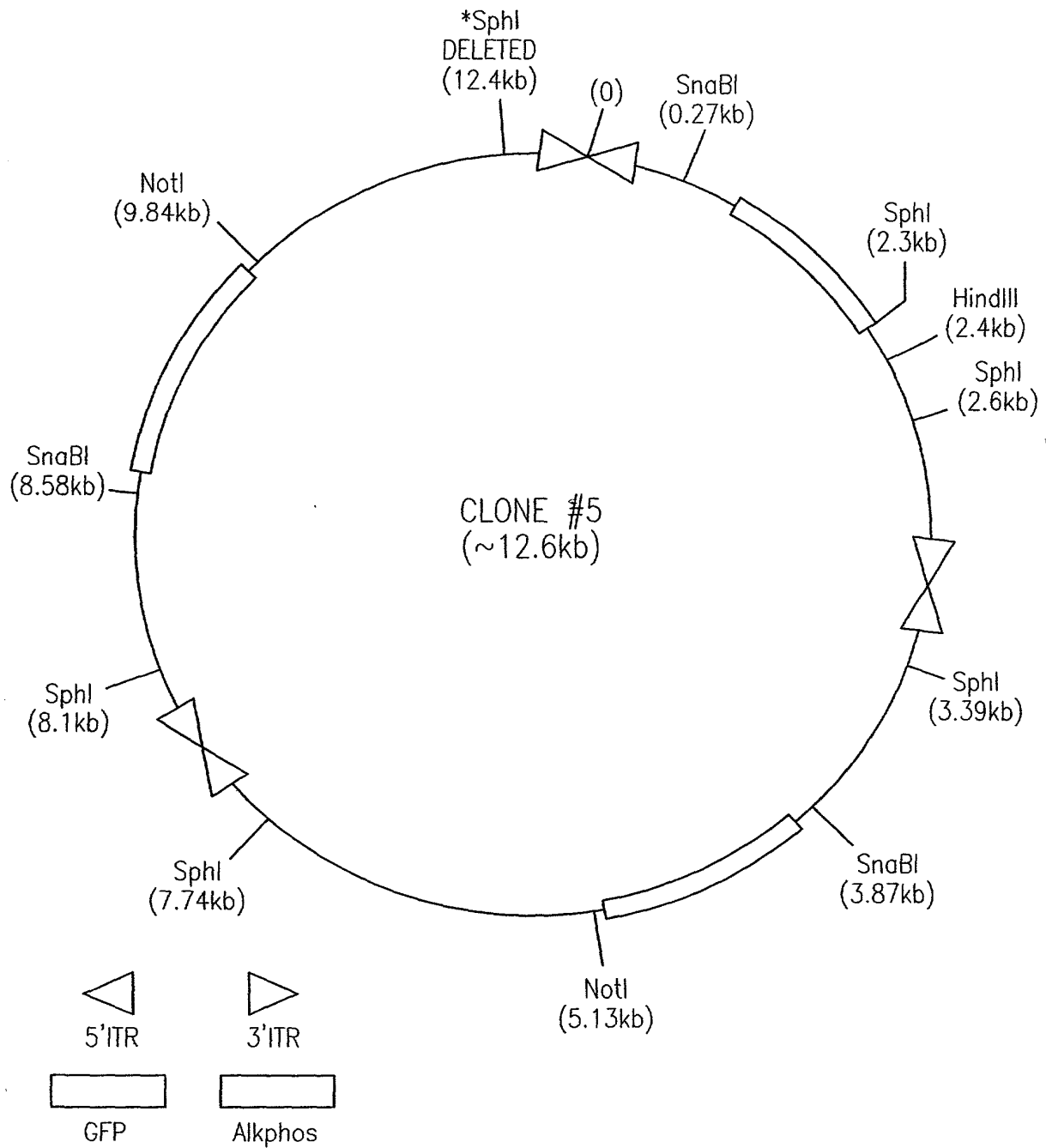


FIG. 18D

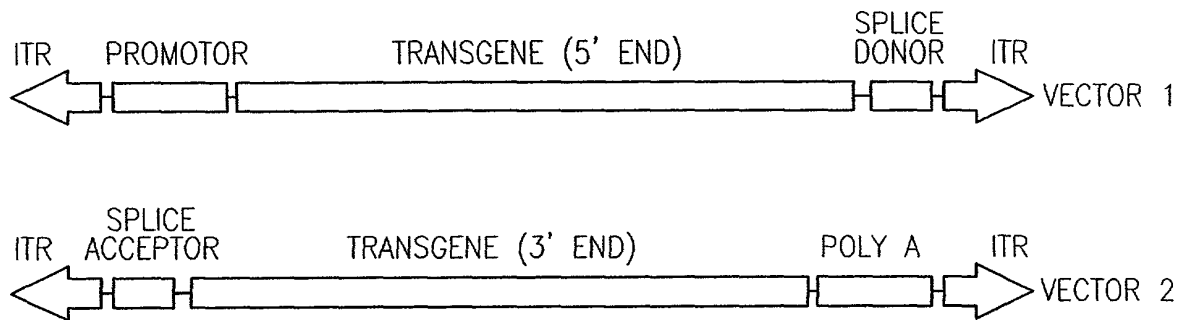


FIG. 19A

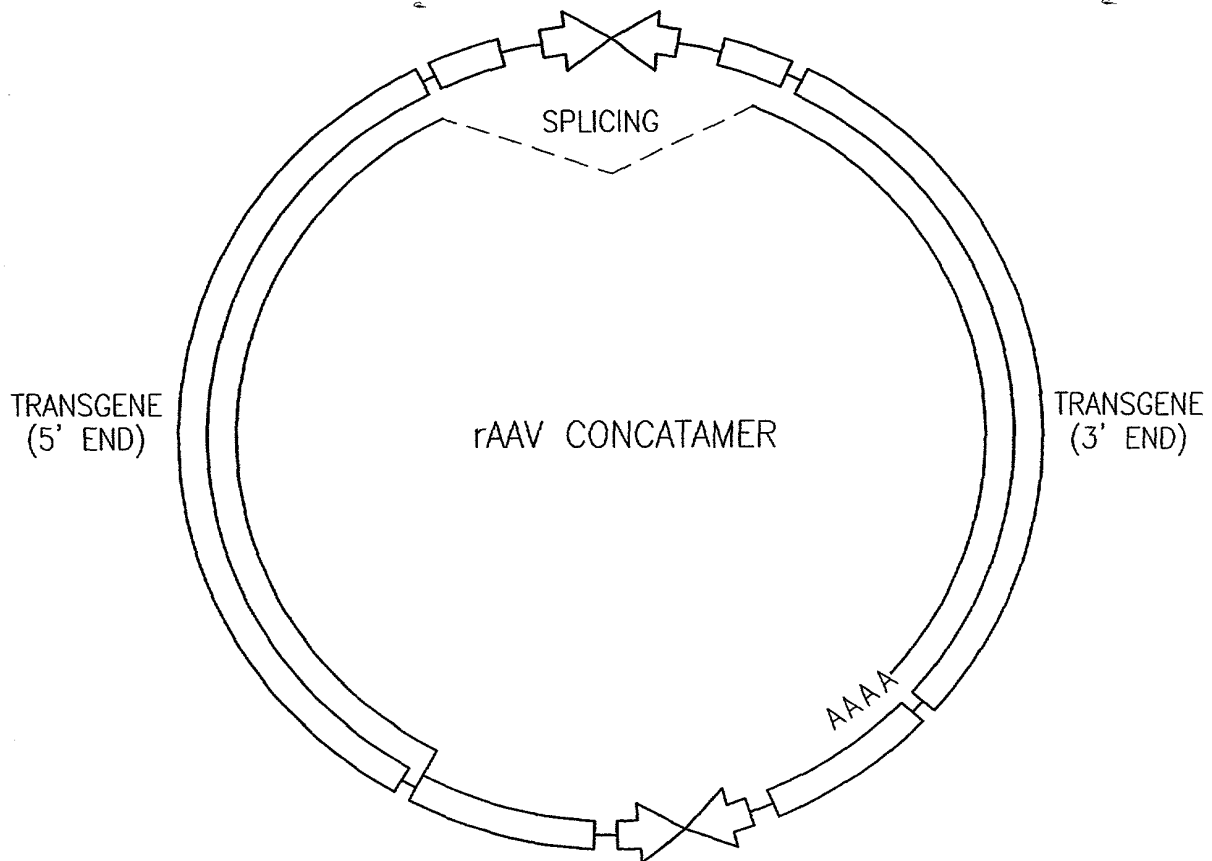


FIG. 19B